E06523

HORN MEASUREMENTS

AND WEIGHTS

OF THE

GREAT GAME OF THE WORLD.

F06523

HORN MEASUREMENTS

AND WEIGHTS

OF THE

GREAT GAME OF THE WORLD:

BEING

A RECORD FOR THE USE OF SPORTSMEN AND NATURALISTS.

BY

ROWLAND WARD, F.Z.S.,

Author of "The Sportsman's Handbook," &c.

OVIBOS MOSCHATUS.

AT "THE JUNGLE," 166, PICCADILLY.

AND OF ALL BOOKSELLERS.

1892.

THIS BOOK IS DEDICATED

TO THE

SPORTSMEN OF THE WORLD,

WITHOUT WHOSE DETERMINED PLUCK AND LOVE OF TRAVEL IT COULD NOT HAVE BEEN PRODUCED, NOR COULD I HAVE SPENT A LIFE-TIME IN THE ART WHICH I HAVE TRIED TO ADVANCE.

ROWLAND WARD.

PREFACE.

MY object in producing this book is to start a record of Horn Measurements of the Great Game of the World. I only regret that I did not commence it at an earlier date, as it would then have been more complete. But in my earlier life I had but little help, and often worked thirty hours at a stretch; my work necessitated attention to specimens that demanded immediate treatment, and my love for reproducing life-like studies prevented me from keeping records.

The measurements presented here have been taken recently by one hand and, for that reason, I value them the more. The dimensions from acknowledged authorities I am not responsible for. This book is not designed to be in any way a scientific work, but it is prepared for gentlemen sportsmen and scientific men who are interested to see comparable measurements at a glance. I think these have not been produced in like form before. Of course, the record can be added to, and I shall feel indebted to sportsmen who will contribute measurements, for I am not

producing this work in a completed form—it must grow. It is to be borne in mind that many trophies which have passed through my hands are now scattered all over the world, and the dimensions of them, for the time, are not recorded here. Some that I give now are fine measurements, some are only ordinary statistics, many are of new species altogether; these last being mainly a result of the quite recent opening up of Africa. The advice noted as to the way to measure must be dealt with strictly, for many persons measuring by different methods produce untrustworthy record. We have tried to be fair in producing the statistics, taking them rather under than over the mark; and the tape has not been pressed into corrugations, but carried outside, over all inequalities.

Many gentlemen's trophies I should like to have measured, but those specimens have either changed hands or are now in some remote part of the world, and the book cannot be delayed longer; but distance has not prevented me from obtaining many important statistics.

R. W.

ABBREVIATIONS AND SIGNS.

♂ Male. ♀ Female. ... ... Unrecorded.

LENGTH is expressed in inches, where not otherwise noted.

MEASUREMENTS are on the outside of horn from tip to base. Circumference is at the base; with Deer above first tine.

MEMO.—Horns that possess a core have a tendency to shrink.

WEIGHTS taken on the field should be accepted as approximate.

P.Z.S., Proceedings of the Zoological Society.

ERRATA.

Page	12	*for*	"pyag[illegible]"	*read*	"pygargus."
,,	58	,,	"Naivasha"	,,	"Naivasha."
,,	80	,,	"saltianis"	,,	"saltianus."
,,	126	,,	"hars"	,,	"ears."
,,	126	,,	"sæmmerringii"	,,	"sœmmerringii."
,,	150	,,	"asomaculatus"	,,	"nasomaculatus."

HORN MEASUREMENTS

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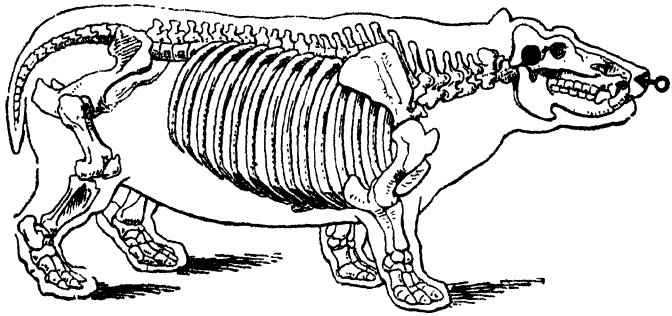
GREAT GAME OF THE WORLD.

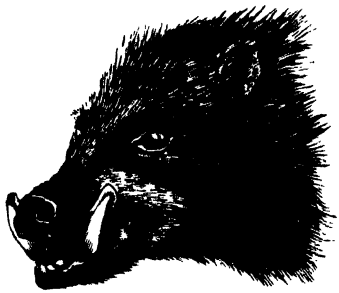


HIPPOPOTAMUS TUSKS (Hippopotamus amphibius).

Habitat—Africa.

Length round outside curve.	Circumference.	Across inside.	Habitat.	Owner.
31⅝	9⅛	...	... ...	Sir Edmund G. Loder, Bart.
30½	9⅛ *	...	St. Lucia Bay ...	Hon. Charles Ellis, 1870.
30	9 *	...	Do. ...	Do.
29	9½	14	... ...	Rowland Ward's Collection.
27⅛	8	...	South Africa ...	The late J. S. Jameson.
27⅛	...	...	... ...	W. D. James.
27	8	...	East Africa ...	E. Gedge.
26½	7½	12½	... ...	G. Portal.
25⅛	7½	...	South Africa ...	The Late J. S. Jameson.
25	7¼	12½	... ...	G. Portal.
24¼	7	12¼	... ...	Do.
23¼	7	12½	... ...	Do.
19⅞	...	...	East Africa ...	Sir John Kirk, M.D., K.C.B.

* Weight, 15 lbs. the pair.



Wild boar (Sus scrofa)

WILD BOAR TUSKS.

Habitat—Europe, Asia Minor, and North Africa.

Length outside curve.	Circumference.	Habitat.	Owner.
10	...	India ...	Sir Samuel Baker, F.R.S., "Wild Beasts and their Ways."
9¼	...	Central Provinces.	J. Moray Brown.
8½	2½	India ...	Rowland Ward's Collection.
8⅛	2½	Do. ...	Do.
8⅛	2¼	Do. ...	F. C. Quicke.
8	2¼	Do. ...	P. A. Bainbridge.
8	2¼	Do. ...	F. C. Quicke.
7½	2¼	Do. ...	P. A. Bainbridge.
7⅛	2⅜	Do. ...	F. C. Quicke.

Habitat—British India, Burmah, Malay Peninsula, Java, Sumatra, Borneo, &c.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
*6½	2⅝	3½	... ...	B. H. Hodgson, British Museum.
6½	3	3⅜	... ...	A. O. Hume, Private Collection.
*5¾	2¾	3¼	... ...	B. H. Hodgson, British Museum.
5⅜	2¼	3⅛	... ...	Hume Collection, British Museum.
5¼	2	3⅛	S. India ...	Sir Victor Brooke's Collection. (Shot by Col. Douglas Hamilton.)
5	1⅞	2	Do. ...	Do.
4⅞	2¼	3⅜	Do. ...	Do.
4¾	1½	1⅝	... ...	Hume Collection, British Museum.
3⅞	2⅜	3⅝	... ...	Do.
*3¼	1⅜	2⅞	... ...	B. H. Hodgson, British Museum.
†2½	1⅝	3	Ningpo	R. Swinhoe, British Museum.
‡1½	...	4½	Do.	A. Mitchie, British Museum.

* Muntjacus virginalis. † Cervulus sclateri. ‡ Cervulus crinifrons.

SAMBUR (Cervus aristotelis).

Weight—600 lbs. (about); 13½ hands at shoulder.—Sir Samuel Baker, "Wild Beasts and their Ways."

Habitat—India, Burmah, and China.

Length round outside.	Circumference above brow tine.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
46½	6⅜	24⅛	30⅞	3 × 3	... ...	A. O. Hume, Private Collection.
45⅛	6⅝	17¾	32⅛	3 × 3	India	Dr. Falconer, British Museum.
45	7⅜	22½	33¾	3 × 3	Mayoghur, Cent. Provinces.	Sir John Morris, K.C.S.I.
45	7¼	44⅞	...	3 × 3	... ...	Major-Gen. Arthur Ellis, C.S.I.
44⅛	7⅞	44⅜	45⅞	3 × 3	Rangeer, Cent. Provinces.	Col. W. J. Morris.
44	Owners' measurements				... ...	J. D. Invarairity.
43⅝	5⅝	(single horn)	...	3	... ...	Hume Collection, British Museum.
43½	6⅛	(single horn)	...	3	... ...	Do.
43⅜	6¼	20⅜	29⅛	3 × 3	... ...	Sir Robert Harvey, Bart.
42½	6¼	15	27¾	4 × 4	Ghâuts of Simrol.	Col. J. Evans, British Museum.
41⅞	6¼	33⅛	35¼	3 × 3	... ...	Major-Gen. Arthur Ellis, C.S.I.
41¾	7	28¼	34¾	3 × 3	... ...	Hon. Walter Rothschild.
41⅝	7⅛	31¾	36¾	4 × 3	Nepal... ...	B. H. Hodgson, British Museum.
41⅜	7⅛	(single horn)	...	5	... ...	British Museum.

SAMBUR (Cervus aristotelis)—*continued.*

Length round outside.	Circumference above brow tine.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
41	8½ above burr 10½ round ,,	palmated		3 × 3	North Gujerat	S. C. Lex. (*The Field*, Oct. 23, 1869.)
40½	5⅝	33	37¼	3 × 3	... ...	Hume Collection, British Museum.
40¼	6¼	28⅛	32	3 × 3	Neilgherries ...	Sir Victor Brooke's Collection. (Shot by Col. Doug. Hamilton.)
40	7	11½	24¼	3 × 3	... ...	Rowland Ward's Collection.
40	5⅞	32¼	36	3 × 3	Ghâuts of Simrol.	Col. J. Evans, British Museum.
39⅝	6⅜	(single horn)	...	3	... ...	British Museum.
39¼	7½	20½	26¾	3 × 4	... ...	Hume Collection, British Museum.
39¼	6	16½	20½	2 × 2	... ...	H.R.H. Duke of Edinburgh.
39	7½	24	...	4 × 4	... ...	Capt. Henry Streatfield.
38⅞	6⅞	(single horn)	...	...	... ...	British Museum.
38¾	6¾	24	29½	3 × 3	... ...	Major-Gen. Arthur Ellis, C.S.I.
38⅝	6	22½	30¼	3 × 3	... ...	F. J. Horniman.
38½	6¾	23¼	28⅞	3 × 3	... ...	Sir Robert Harvey, Bart.
38½	5¼	55	...	3 × 3	... ...	Major-Gen. Arthur Ellis, C.S.I.
38⅛	6⅞	30⅛	35	3 × 3	Neilgherries...	Sir Victor Brooke's Collection. (Shot by Col. Doug. Hamilton.)
38	6½	29¾	41⅜	3 × 3	Moharli Forest, Chanda District, Cent. Provinces.	Sir John Morris, K.C.S.I.
37⅞	6	23	31½	3 × 4	... ...	Sir Robert Harvey, Bart.
37¾	5⅞	14	21¼	3 × 3	Nepal... ...	B. H. Hodgson, British Museum.
37½	6¾	21⅜	25⅜	4 × 3	Cent. Provinces	Major C. S. Cumberland.
37½	5¾	20¾	28¼	3 × 3	... ...	H.R.H. Duke of Edinburgh.
37⅜	6¾	28⅛	31	3 × 3	Neilgherries...	Sir Victor Brooke's Collection. (Shot by Col. Doug. Hamilton.)
37¼	5⅜	19⅝	30¾	3 × 3	... ...	Major Cumberland.
37	7½ × 5¾	16	...	3 × 3	... ...	Surg.-Major Briggs.
37	6⅛	27⅛	28¾	3 × 3	... ...	H. C. V. Hunter.
36¼	5⅞	19⅞	24⅛	3 × 3	Cent. Provinces	Major C. S. Cumberland.
35⅝	6¼	19¾	24½	3 × 3	... ...	H.R.H. Duke of Edinburgh.

SAMBUR (Cervus aristotelis)—*continued.*

Length round outside.	Circumference above brow tine.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
35⅝	5	22¼	28½	3 × 3	Nepal... ...	B. H. Hodgson, British Museum.
35½	6	11¾	...	3 × 3	... ...	Capt. Goulburn, R.A.
35⅜	5⅞	21¾	25⅞	3 × 3	... ...	J. Carr Saunders.
35⅜	5½	23⅛	28½	3 × 3	Nepal... ...	B. H. Hodgson, British Museum.
35¼	7⅜	20	26	3 × 3	Bhotan ...	Sir Victor Brooke's Collection, 1869.
35¼	5½	30¾	32¼	4 × 3	Nepal... ...	B. H. Hodgson, British Museum.
35⅛	6⅛	23½	25⅜	3 × 3	India	British Museum.
35	5⅝	22½	26⅞	3 × 3	Nepal... ...	B. H. Hodgson, British Museum.
35	5⅜	17⅛	25½	3 × 3	... ...	Sir Robert Harvey, Bart.
34⅜	5⅜	33	33½	2 × 2	... ...	British Museum.
34¼	6½	20¾	24⅜	3 × 3	Neilgherries ...	Sir Victor Brooke's Collection. (Shot by Col. Doug. Hamilton.)
34	4⅞	30	32¼	3 × 3	... ...	J. Carr Saunders.
34	4⅞	(single horn)	...	3	Nepal... ...	B. H. Hodgson, British Museum.
33⅞	5¼	27⅛	30⅛	3 × 3	... ...	H. C. V. Hunter.
33¾	5⅛	15¾	...	3 × 3	Java	Capt. Townley Parker.
33½	5¾	16	18⅝	3 × 3	Nepal... ...	B. H. Hodgson, British Museum.
33½	5⅝	25½	...	3 × 6	... ...	H.R.H. Duke of Edinburgh.
33	5¾	25	...	3 × 3	... ...	Rowland Ward's Collection.
32⅞	5⅛	20½	24⅝	3 × 3	... ...	British Museum.
32½	7⅛	35½	...	7 × 6	... ...	Hume Collection, British Museum.
32½	4¾	25⅞	...	3 × 3	... ...	H.R.H. Duke of Edinburgh.
32⅜	6⅛	30	31⅝	3 × 3	Cent. Provinces	Major C. S. Cumberland.
32¼	5¼	20¼	18⅜	3 × 3	Nepal... ...	B. H. Hodgson, British Museum.
32¼	5⅛	25⅛	29⅛	2 × 2	India	Do.
32	5½	25	25¾	3 × 3	... ...	British Museum.
32	5⅛	20¾	...	3 × 3	... ...	H.R.H. Duke of Edinburgh.
32	5⅛	20⅞	25	3 × 4	Neilgherries ...	St. George Littledale, 1875.

SAMBUR (Cervus aristotelis)—*continued.*

Length round outside.	Circumference above brow tine.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
31⅝	5⅜	21¾	25	3 × 3	Nepal	B. H. Hodgson, British Museum.
31½	5⅜	17¼	24	3 × 3	... ...	Martyn Kennard.
31½	5⅜	(one horn broken)		1 × 3	Nepal	B. H. Hodgson, British Museum.
31½	5¼	20⅜	27¼	3 × 3	Deccan ...	Col. J. Sykes, British Museum.
31⅜	6⅝	31¾	32½	3 × 3	Do. ...	Do.
31⅜	6½	15½	19	3 × 4	Nepal	B. H. Hodgson, British Museum.
31¼	4½	22¾	...	3 × 3	India	H. R. H. Duke of Edinburgh.
31	5¾	(single horn)	...	3	Do.	H. R. H. le Duc d'Orleans.
31	5½	10	17¼	4 × 3	Nepal	B. H. Hodgson, British Museum.
30¾	5	11⅜	19⅝	3 × 3	Do.	Do.
30⅛	4⅝	21⅛	25⅜	3 × 3	... ...	H. C. V. Hunter.
29⅛	5¾	15⅛	20½	3 × 3	... ...	Do.
29⅛	4⅝	21⅛	22½	3 × 3	India	British Museum.
28⅛	5⅞	23	26½	3 × 3	... ...	H. R. H. Duke of Edinburgh.
28	5	18¾	22⅞	3 × 3	India	British Museum.
27¾	5	26⅛	27⅛	3 × 3	Neilgherries ...	St. George Littledale, 1875.
26⅞	5⅝	12⅛	16	3 × 3	... ...	A. O. Hume, Private Collection.
26⅞	5¼	23½	23¾	3 × 2	Neilgherries ...	St. George Littledale, 1875.
23¾	4⅜	17⅜	18⅛	4 × 3	... ...	H. R. H. Duke of Edinburgh.
22	...	(single horn)	...	7	Nagpore ...	Sir Victor Brooke's Collection. (Shot by Lord David Kennedy.)
21	5	11⅛	...	3 × 3	... ...	R. Lydekker, British Museum.
18¼	4½	7⅝	8⅝	3 × 3	India	B. H. Hodgson, British Museum.
16½	2¾	11⅛	12	1 × 1	Nepal	Do.

CENTRAL AND SOUTHERN INDIAN SAMBUR (Rusa hippelaphus).

Habitat—Central and Southern India.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
36⅜	5⅞	27¾	...	2 × 3	Nepal	B. H. Hodgson, British Museum.
31¼	5⅜	18	18¾	4 × 3	Do.	Do.
29¾	4⅛	20½	...	3 × 3	India	British Museum.
28¼	5	18⅞	...	3 × 4	Nepal	B. H. Hodgson, British Museum.

EQUINE DEER (Cervus equinus).

Habitat—Borneo, Sumatra, and Singapore.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
30⅞	6½	17¼	19⅝	7 × 7	... ...	Sir Edmund G. Loder, Bart.
30⅛	4⅜	20¾	21¼	6(3 × 3)	... ...	British Museum.
29⅜	6	16⅝	20¾	3 × 3	... ...	Hume Collection, British Museum.
27⅝	5¼	19½	18	3 × 3	... ...	Do.
25⅛	4⅞	14¾	18⅞	4 × 3	... ...	Do.
23⅛	7	15⅜	...	3 × 3	Borneo ...	H. B. Low, British Museum.
20¾	4⅞	18¾	...	3 × 3	Do. ...	Do.
20½	5⅞	15½	...	3 × 3	Do. ...	Do.
20⅜	4⅞	13	...	3 × 3	Do. ...	Do.
19⅝	4¼	16⅞	16⅞	4 × 3	... ...	Hume Collection, British Museum.
18⅜	4½	15	...	3 × 3	Borneo ...	H. B. Low, British Museum.
17¾	5⅛	16¼	...	4 × 5	Do. ...	Do.
17½	4⅝	13¾	...	3 × 3	Do. ...	Do.
16¼	4¼	5⅝	...	2 × 3	Do. ...	W. B. Pryer, British Museum.
15¼	4⅛	13⅛	...	3 × 3	Do. ...	H. B. Low, British Museum.
11¾	3⅛	9¼	...	3 × 2	Do. ...	Do.

SWINHOE'S DEER (Cervus swinhoii).

[Mr. SWINHOE on "Chinese Mammals," P.Z.S. 1870, p. 646.]

["Cervus (Rusa) Swinhoii," SCLATER, P.Z.S. 1862, p. 152; SWINHOE, P.Z.S. 1862, p. 364.]

IN the central ranges of Formosa, near Mount Morrison, this brown deer is very common; and on a visit I paid to the wild tribes of these parts in February 1866, I found them hunting the deer with dogs.

A place is cleared in the forest, where a party of men hide armed with matchlocks; the dogs yelp after the deer and drive them into the open, where the hidden sportsmen get easy shots at them. The son of the chief with whom I was staying had just returned from a successful battue with the robust antlers and flesh of a large buck. I induced him to return for the head, which he had thrown away on the field. I was thus enabled to secure a fine skull for the British Museum.

The young of this species, about half-grown, is reddish brown, with the tail bushy and black, but reddish at its root; sides of the body paler, and the belly blackish brown; legs pale towards the hoofs, the latter black; under surface of tail, abdomen, and inner sides of hind legs down to middle of shank yellowish white, the breast and belly being blackish brown; under surface of head and neck mottled whitey brown; crown of the head, with many of the hairs, tipped with black; from the occiput a dark line runs down to the base of the tail; ears blackish brown, tipped and margined with ochreous white, and whitish on their insides.

The adult, in summer, has its coarse hair deep brown, faintly mottled, rufous on the rump; between the fore legs and the thighs ochreous white; tail bushy and dark. In winter it becomes a deeper brown.

The Society's Gardens have had two or three examples of this animal alive; and Dr. Sclater is doing it justice in his paper for the "Transactions." Fig. 5 represents the antlers of a mature individual which I procured in South Formosa.

I have not heard of any species of Rusa occurring on the main of China; but in Hainan the C. hippelaphus appears to abound. From North China we have the Cervus xanthopygus (A. M. Edwards), the Elaphurus davidianus (A. M. Edwards), and the Capreolus pyaargus (Pall).

Length	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
19¾	...	9	12⅞	3 × 3	Island of Formosa	Zoological Society, British Museum.
16⅛	3⅝	16	...	3 × 3	Do.	British Museum.
13⅝	4¾	13⅛	...	4 × 4	Do.	Zoological Society, British Museum.
5⅞	2⅛	6¼	...	2 × 3	Do.	British Museum.

THE PHILIPPINE DEER (Cervus philippinus).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1877, p. 51.]

ADULT MALE.—Hair of moderate length and rather harsh. General colour, rich ruddy brown, darkest on the back and lightest on the neck. Forehead and cheeks rufous fawn-colour; dark (almost black) streaks commence over each eye, and, blending together, form a band running down the centre of the face, which is separated from the dark moustache-like mark bordering the muzzle by a narrow track of pale fawn-colour. Breast and belly uniform brown. Tarsal gland plainly marked by a rufous spot. Ears of moderate size, covered externally by short close-set hair. Horns remarkably rough and massive; a powerful, long brow-antler, and one short tine directed inwards. Height at shoulder, about 27 inches.

The skull of this species is an exact miniature of that of Cervus aristotelis.

FEMALE.—In external colouration differs in no way from the male.

YOUNG.—Of a uniform brown, without spots.

HABITAT.—Island of Luzon, Philippines.

The Philippine deer is a very stout-built, short-limbed, powerful animal, in carriage and general appearance closely resembling the common Sambur (Cervus aristotelis).

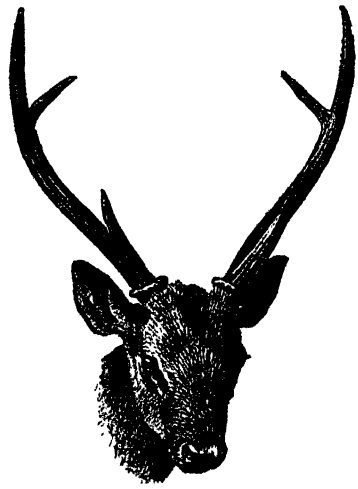
Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
13⅛	4½	11⅝	11¾	3 × 3	Basilan	Everett, British Museum.
13½	4⅜	12⅛	12½	3 × 3	Philippine Islands ...	Do.

MARIANE DEER (Cervus marianus).

THE late Sir Victor Brooke believed that Cervus philippinus and C. marianus were identical.

Habitat—Philippine Islands.

Length.	Circumference.	Tip to Tip.	Points.	Habitat.	Owner.
19⅝	5¼	7½	4 × 4	Philippine Islands...	Capt. Belcher, British Museum.
18⅞	5¼	9¾	3 × 5	Do. ...	Do.
18⅜	5⅛	14¾	4 × 3	Do. ...	Do.
18	4⅝	13⅞	4 × 4	Do. ...	Do.
15⅛	5½	11¼	3 × 3	Do. ...	Do.
14⅝	4¾	8⅛	3 × 3	Do. ...	Do.



HOG DEER (Cervus porcinus).

Habitat—India.

Length.	Circumference above brow tine.	Tip to Tip.	Habitat.	Owner.
19¼	3⅛	9½	India	A. O. Hume, Private Collection.
19⅛	3¼	16½	Burmah	Sir Victor Brooke's Collection.
19⅛	3⅜	18¾	India	H. C. V. Hunter.
17¾	3½	9¼	Nepal	B. H. Hodgson, British Museum.
17⅛	3⅛	9¼	India	J. Carr-Saunders.
17	2⅞	12⅝	Do.	H. C. V. Hunter.
16⅞	3	10⅜	Do.	British Museum.
16½	2¾	9	Nepal	B. H. Hodgson, British Museum.
16⅜	3⅝	9⅜	India	British Museum.
16¼	2⅞	8	Do.	H. C. V. Hunter.
16⅛	2⅞	8⅝	Do.	Gen. Hardwicke, British Museum.
15⅝	3⅛	8	Do.	British Museum.

HOG DEER (Cervus porcinus)—

Length.	Circumference above brow tine.	Tip to Tip.	Habitat.	Owner.
14¼	3¼	10¾	Nepal	B. H. Hodgson, British Museum.
14⅛	2¾	(single horn)	India	Gen. Hardwicke, British Museum.
14	3	8⅝	Do.	H.R.H. Duke of Edinburgh.
13¼	3⅛	10¾	Do.	Gen. Hardwicke, British Museum.
13	3⅛	12¾	Do.	Hon. Walter Rothschild.
12¾	3	10⅝	Nepal	B. H. Hodgson, British Museum.
12½	3	12⅞	India	Gen. Hardwicke, British Museum.
11¼	3¼	9¾	Do.	British Museum.
11¼	2⅝	11	Do.	Gen. Hardwicke, British Museum.
9¼	3	(single horn)	Do.	Do.

KUHL'S STAG (Cervus kuhli).

[Sir VICTOR BROOKE, P.Z.S. 1878, p. 902.]

[1839-44. Cervus kuhlii, Mull. "Verh. Nat. Gesch. Ned. Bez. Zoo.," p. 223, pls. 44, 45, figs. 12–14.

Habitat—Bavian Islands. *Type*—Mus. Leyden.

THIS species was originally described by Muller from specimens collected by Diard in the Bavian Islands, to which locality the species, as far as is at present known, is confined. The auditory bullæ in Cervus kuhli are largely inflated. By this character the skull may be distinguished from that of any of the Rusine deer, with the exception of C. porcinus. The skull of C. kuhli differs from that of C. porcinus in having the facial portion anterior to the orbits much more compressed, and the orbits much more prominent. C. kuhli has proportionally much longer limbs than C. porcinus; and all the hairs of the back and sides are annulated

in the former and not in the latter species. The young of C. kuhli are unspotted, which is not the case with those of C. porcinus. Both species are devoid of upper canines.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
9¾	2⅞	10⅞	10⅞	3...3	Java... ...	British Museum.

MOLUCCAN DEER (Cervus moluccensis).

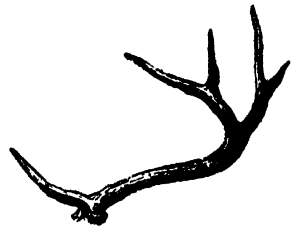
[Sir VICTOR BROOKE, P.Z.S. 1878, p. 904.]

DIMENSIONS.

	Eng. inches.
Total length of skull in a straight line	11
From ant. rim of orbit to free extremity of præmaxillæ	5·7
Length of upper molar series	1·8
,, premolar series	1·4
Greatest length of nasals	3·5
Length of præmaxillæ	2·9
Across the lower rims of orbits at the widest place...	4·5
Length of humerus	7·9
,, radius	7·2
,, metacarpal cannon	6·1
,, femur	9·7
,, tibia	10·5
,, metatarsal cannon	7

Habitat—Molucca Islands.

Length.	Circumference.	Tip to Tip.	Points.	Habitat.	Owner.
36⅛	4⅝	18½	3×3	... ...	Sir Edmund G. Loder, Bart.
8¾	4	5⅛	...	Batchian ...	A. R. Wallace, British Museum.
6¼	3⅜	5⅝	...	... ...	British Museum.



SWAMP DEER (Cervus duvaucelli).

Habitat—India.

Weight—About 40 stone.

Length round outside.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
41	5½	(one horn broken)		6 × 6	Central Provinces	Major C. S. Cumberland. (Shot in 1891.)
39¼	5	35½	37½	5 × 6	India	Do.
37⅜	5¼	23⅝	28½	7 × 6	... ...	Sir Edmund G. Loder, Bart.
36	5	29¾	33⅜	6 × 5	Nepal... ...	B. H. Hodgson, British Museum.
35⅜	4⅞	27	29¾	...	... ...	Sir Victor Brooke's Collection.
35¼	5¾	22¼	...	7 × 6	... ...	H. C. V. Hunter.
34¾	5⅝	38¼	...	5 × 5	Central Provinces	Major C. S. Cumberland.
33½	4¾	26½	29¼	5 × 5	Do.	Do.
33⅛	5½	38⅜	...	5 × 5	Do.	Do.
32⅞	5¼	22⅜	26⅜	5 × 6	... ...	A. O. Hume, Private Collection.
32¾	5	27½	...	6 × 7	... ...	Capt. Henry Streatfield.
32⅝	5	33¼	35	6 × 6	... ...	Sir Robert Harvey, Bart.
32⅛	5⅛	19⅝	24½	7 × 7	... ...	H.R.H. Duke of Edinburgh.
31⅞	4⅝	26½	30	5 × 6	... ...	Major Cumberland.
31⅞	4¾	27⅛	30	7 × 8	Nepal... ...	B. H. Hodgson, British Museum.

SWAMP DEER (Cervus

Length round outside.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
31⅝	5⅛	30¼	32⅝	6 × 6	Central Provinces	Major C. S. Cumberland.
31⅜	4⅞	26¾	30½	5 × 5	Do.	Do.
31⅛	4⅝	22½	26¼	6 × 6	Nepal	B. H. Hodgson, British Museum.
31	5⅜	16	22⅜	6 × 5	Do.	Do.
30⅜	5⅛	26	27½	7 × 7	... ...	A. O. Hume, Private Collection.
29⅜	5	19½	22¼	8 × 8	... ...	Hume Collection, British Museum.
29¼	5	27	29¼	7 × 8	... ...	Do.
29⅛	6¼	20¼	28¼	...	... ...	Sir Victor Brooke's Collection.
29⅛	4¾	19⅞	23¼	6 × 5	... ...	Earl of Derby, British Museum.
29	5⅛	24⅝	27⅜	6 × 6	... ...	Capt. Henry Streatfield.
29	4¼	25⅛	26⅞	9 × 8	Nepal	B. H. Hodgson, British Museum.
28½	5	24	25¾	8 × 7	... ...	Hume Collection, British Museum.
27⅜	5½	23¼	26½	6 × 5	... ...	British Museum.
27⅛	4⅜	18	23¼	5 × 6	Nepal	B. H. Hodgson, British Museum.
27	4⅝	27½	...	6 × 5	... ...	Hon. Walter Rothschild.
26	5	28	...	6 × 5	... ...	Do.
25	3¾	23¼	23½	6 × 6	... ...	H. C. V. Hunter.
24	4	20	...	6 × 6	... ...	Do.
23¾	4	20⅝	22⅛	6 × 5	Nepal	B. H. Hodgson, British Museum.
22⅛	5⅜	18	19⅔	7 × 6	Do.	Do.
20	4½	17	...	6 × 6	... ...	M. B. Snell.
13¼	2½	10⅝	11½	4 × 4	... ...	Hume Collection, British Museum.

SCHOMBURGK'S DEER (Cervus schomburgki).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1876, p. 306.]

ADULT MALE.—Antlers with very long powerful brow-antlers, which are frequently forked; beam very short, and more or less laterally compressed; upper part of the antlers strictly dichotomous, each of the main branches about equally developed, and in itself dichotomous, and furnished with long cylindrical tines. External surface of the antlers smooth and polished. Hair in winter rather long and coarse. General colour uniform brown, darkest on the nose and upper surface of the tail, and lightest on the cheeks and lower parts of the sides and haunches. Lower lip, belly, and under surface of tail whitish. Upper lip, occiput, and limbs with a decided tinge of rufous. The hair on the front of the metacarpal cannon bones is lengthened into an everted mane about 2 inches in length.

IMMATURE MALE.—Antlers with the posterior of the two main branches less developed than the anterior branch.

Habitat—Northern parts of Siam.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
30⅛	5	15⅝	33	10 × 10	Siam	British Museum.
29⅞	5⅛	23⅝	26⅞	9 × 8	Do.	Do.
29¾	4¾	28⅜	31⅝	10 × 11	Do.	Do.
28½	5¼	11	29⅜	11 × 9	... ...	Sir Victor Brooke's Collection.
27⅞	5⅜	14	24½	9 × 8	Siam	British Museum.
27¾	4⅜	18½	24⅞	7 × 8	Do.	Do.

BURMESE STAG or THEMIN (Cervus eldi).

Habitat—Burmah and Hainan.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Length of brow tine.	Habitat.	Owner.
39⅝	5	31⅜	36⅝	20 (small points)	...	Siam	Sir Edmund G. Loder, Bart.
38⅞	6¼	25½	30⅜	16 × 19	...	India	British Museum.
37½	5⅜	20¼	30½	5 × 5	...	Do.	Do.
37	6⅛	...	31¼	...	10½	... ...	Rowland Ward's Collection.
36⅛	5½	28¾	31¾	4 × 3	...	... ...	A. O. Hume, Private Collection.
35¾	5⅜	30⅞	34½	4 × 5	...	India	British Museum.
34⅞	5½	27½	32	6 × 6	...	... ...	Hume Collection, British Museum.
34⅝	6⅛	24	30⅜	5 × 6	...	... ...	A. O. Hume, Private Collection.
34⅛	5	24	32¼	6 × 6	...	... ...	Hon. Walter Rothschild.
34	5⅞	23½	29¾	10 × 10	...	... ...	J. Carr-Saunders.
33⅞	5⅛	25⅞	28¾	6 × 6	...	India	British Museum.
33½	5½	...	40	...	15	... ...	Col. Pole Carew.

BURMESE STAG or THEMIN (Cervus eldi)—*continued.*

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Length of brow tine.	Habitat.	Owner.
33½	5½	25	29⅛	5 × 4	...	... ...	Hume Collection, British Museum.
33½	5⅛	26¼	30¼	3 × 3	...	... ...	Do.
33⅛	5⅛	33⅛	37¼	5 × 5	...	British Burmah	Sir Edmund G. Loder, Bart.
33	4⅝	28⅞	32⅛	3 × 3	...	... ...	Sir Victor Brooke's Collection.
32⅛	5⅜	20¼	20½	4 × 3	...	... ...	Gen. Sir Henry Collett, K.C.B.
31⅝	4½	34⅜	35⅞	6 × 5	...	... ...	Sir Victor Brooke's Collection.
31½	4½	20	27	9 × 9	...	... ...	Do.
31⅛	5	25⅞	29⅛	6 × 7	...	Nepal... ...	B. H. Hodgson, British Museum.
30½	4¾	23⅛	25⅜	5 × 5	...	India	British Museum.
30½	4¾	22⅞	25⅞	6 × 5	...	... ...	Do.
30½	4¾	19¼	23¼	5 × 3	...	Nepal... ...	Do.
29	6⅜	20	24¾	6 × 5	...	... ...	Hume Collection, British Museum.
27¾	4⅝	27⅞	...	5 × 6	...	... ...	Sir Victor Brooke's Collection.
25⅝	4½	22	23¾	4 × 4	...	... ...	British Museum.
25	4½	18⅛	24	6 × 7	...	... ...	Do.
18½	3⅝	12½	13½	5 × 6	...	Formosa ...	R. Swinhoe, British Museum.
17½	3⅛	13⅝	14¾	3 × 5	...	Do. ...	Do.
15¼	2⅞	9¾	10⅝	3 × 2	...	Do. ...	Do.
13⅝	3¼	...	12⅜	5 × 6	...	Siam	British Museum.
13¼	2½	7⅝	8⅛	3 × 2	...	Formosa ...	R. Swinhoe, British Museum.

PERE DAVID'S DEER (Cervus davidianus).

[Sir VICTOR BROOKE, P.Z.S. 1878, p. 906.]

ANTLERS dichotomous, about twice the length of the head, pedestals short. The anterior branch of the antlers (*b*) more strongly developed than the posterior branch (*c*) and in adult specimens bifurcating and carrying many strong tines. Facial portion of the skull much elongated. Ears small and narrow; eye small; tail long; neck maned; stature large; young unspotted.

Distribution—North-eastern Palæarctic region.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
32⅞	6⅜	13⅝	18½	8 × 8	Near Pekin ...	Sir Edmund G. Loder, Bart.
28¼	5⅜	26½	...	3 × 3	.. ..	Hon. Walter Rothschild.
27	5⅞	20¼	...	6 × 5	... ...	British Museum.

JAVA DEER (Cervus rusa).

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
35½	4⅜	22¾	..	3 × 3	Java	Sir Victor Brooke's Collection. (Shot by Col. Douglas Hamilton.)
34	4¾	16⅜	17½	3 × 3	... ...	Do.

AXIS (Axis maculata).

Native Name—Chital or Chitra. *Habitat*—India.

Length outside curve.	Circumference above first point.	Tip to Tip.	Points.	Habitat.	Owner.
37½	4¼	24⅜	4 × 4	India	A. O. Hume, Private Collection.
37⅜	4	24½	3 × 3	Do.	Do.
37¼	4¼	16⅞	4 × 5	Do.	Sir Victor Brooke's Collection.
36¾	4⅜	19⅛	4 × 4	Do.	W. C. Oswell.
36½	4½	25	3 × 4	Do.	C. H. Seeley.
36	4¼	25¼	3 × 4	Do.	British Museum.
35½	4¼	18⅛	4 × 4	Do.	Sir Edmund Loder, Bart.
35¼	4⅛	22⅞	3 × 3	Do.	Major-Gen. Ellis, C.S.I.
34¾	4½	17¾	...	Do.	H.R.H. Duke of Edinburgh.
35⅜	4⅝	23	3 × 4	Do.	British Museum.
34⅝	3⅝	14⅜	3 × 3	Do.	Do.
34½	6½	15½	5 × 4	Do.	Capt. G. Campbell.
34½	4¼	20⅛	3 × 3	Do.	Sir Victor Brooke's Collection.
34	4¾	16½	...	Do.	Col. Pole-Carew.
33⅞	3⅞	22	4 × 4	Do.	British Museum.
33⅝	3⅞	(one horn broken)	3 × 3	Do.	Do.
33½	4⅝	13⅛	3 × 3	Do.	J. Carr-Saunders.
33½	4⅜	23⅝	4 × 5	Central Provinces ...	Major C. S. Cumberland.

AXIS (Axis maculata)—*continued.*

Length outside curve.	Circumference above first point.	Tip to Tip.	Points.	Habitat.	Owner.
33¼	4⅛	20¼	4 × 4	India	British Museum.
33¼	4¼	22½	4 × 5	Do.	Do.
33¼	3⅞	13	2 × 3	Yeddacurra, South India.	Sir Victor Brooke's Collection. (Shot by Col. Doug. Hamilton.)
33⅛	3⅞	14⅜	3 × 4	India	Sir James Anderson, Bart.
33⅝	4⅛	21⅛	3 × 4	Do.	British Museum.
32⅞	4⅜	21½	3 × 3	Do.	Hon. Walter Rothschild.
32¾	3⅞	14	3 × 3	Do.	Sir James Anderson, Bart.
32½	4¼	23⅜	5 × 4	Karkoor, South India	Sir Victor Brooke's Collection.
32⅜	3⅞	15¼	3 × 3	Central Provinces ...	Major C. S. Cumberland.
31½	3⅝	19½	5 × 5	India	British Museum.
31⅞	4¼	22	6 × 6	Do.	Do.
31¼	3¾	10⅞	3 × 3	Do.	H. C. V. Hunter.
30½	4	10½	3 × 3	Do.	Do.
30⅜	4⅛	21¾	4 × 4	Do.	Sir Robert Harvey, Bart.
30⅜	3⅝	6⅝	3 × 3	Do.	H.R.H. Duke of Edinburgh.
29⅞	4⅛	20¼	3 × 3	Do.	British Museum.
29⅞	3½	4⅜	4 × 4	Nepal	B. H. Hodgson, British Museum.
29⅞	3⅝	16½	3 × 3	India	Sir Robert Harvey, Bart.
29⅜	4⅛	17⅝	5 × 4	Do.	British Museum.
29	3⅝	18½	3 × 3	Nepal	B. H. Hodgson, British Museum.
28⅝	3⅜	15¼	3 × 3	India	Martyn Kennard.
28⅝	3⅝	13⅞	3 × 3	Do.	Rowland Ward's Collection.
28	3½	12⅝	3 × 3	Do.	Sir Robert Harvey, Bart.
27	3½	8½	3 × 3	Do.	Capt. Lewis Jones, R.E.
24¾	3⅛	19⅜	3 × 3	Do.	British Museum.
23⅜	2⅞	11¼	3 × 3	Do.	Do.
22⅛	3⅜	9¾	6 × 6	Nepal	B. H. Hodgson, British Museum.

JAPANESE DEER (Cervus sika).

SEVERAL herds of these Deer have been acclimatized in Great Britain, notably by the late Sir Victor Brooke, Bart., at Colebrooke, Ireland, and Viscount Powercourt, county Wicklow, as well as Sir Robert Harvey, Bart, at Langley, Slough.

Habitat—Japan.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
31¼	5¼	27⅛	27⅜	4 × 4	... ...	Sir Edmund G. Loder, Bart.
25⅜	4⅛	20¼	...	4 × 4	... ...	Do.
22½	3⅛	16⅛	19½	8 × 9	North Japan ...	St. George Littledale.
21⅝	3⅜	16½	20⅛	10 × 6	Islands of Yezzo...	Do.
18½	3¾	...	12	9	Bred in Ireland ...	Sir Victor Brooke's Collection.
16¾	3⅛	...	13	4 × 3	Japan	British Museum.
16⅝	3½	...	12½	4 × 4	Bred in Ireland ...	Sir Victor Brooke's Collection.
13⅞	2¾	...	14¾	3 × 3	Japan	British Museum.
12½	2⅜	6½	6¾	3 × 3	Do.	Do.

MANTCHURIAN DEER (Cervus mantchuricus).

[SWINHOE, P.Z.S. 1865, p. 1.]

FINE buck from Newchwang, still in summer coat, examined 30th September, 1864. General colour reddish brown; under neck and fore thighs covered with rather long dusky brown hair; hair of neck, chiefly on its back part and down part of the back list, long and shaggy; list black between the shoulders, fading towards

the tail, inner portion of hind thighs, and inside hair of ears; a large spot on the outer portion of ear near its root; rim round the eye and chin; throat white; body ornamented with large spots of white; tail, including apical hair, nearly one foot long; the hair that overhangs the roots of the tail on either side black; basal half of tail white; apical half black with white tips; under the tail and between the hams white; knees and front of tibice brown; head, from crown to tip of nose, about 20 inches long; ear about 9 inches; forehead and before the eyes reddish; rest of face brownish fawn colour; horns, with frontal tine about 5 inches long, bent a little downwards at the tips; about 8 inches of the stem between lowest tine and the next above, which are broken and represented only by a knob; top stem between that and the top knob about 4 inches.

Habitat—China.

Length.	Circumference.	Tip to Tip.	Points.	Habitat.	Owner.
15⅜	3	20	4 × 4	South Ussari, Mantchuria ...	British Museum.

FORMOSA DEER (Cervus taëvanus).

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
19¾	3⅜	13	16⅜	4 × 4	Islands of Formosa ...	British Museum.

STOKE PARK DEER HEAD.

WILD RED DEER.

RED DEER (Cervus elaphus).

Habitat—Europe, Western Asia, and North Africa.

Length round outside.	Circumference between bez and trez tines.	Tip to Tip.	Widest spread inside.	Points.	Weight.	Habitat.	Owner.
68	...	...	65 (outside)	44	st. lb. 5 4 (of horns)	Carpathians(?)	Lord Powerscourt, P.Z.S. 1862, p. 142.
48½	6	30	41½ (outside)	5 × 6	...	Ichater Dagh (Crimea).	H. R. H. Duke of Edinburgh, 1874.
48⅛	7¼	(single horn)	...	12	...	Asia Minor	Lord A. Hay, British Museum.
47⅝	5½	38	...	6 × 5	...	Caucasus ...	St. George Littledale.
47⅛	7¼	34	41⅛	8 × 9	...	Germany...	Sir Victor Brooke's Collection.
47	7⅛	36	37¾	6 × 7	...	Caucasus ...	St. George Littledale.
46¾	5⅜	18	33	8 × 8	...	Do. (7,000 ft.)	Do. British Museum.

RED DEER (Cervus elaphus)—*continued.*

Length round outside.	Circumference between bez and trez tines.	Tip to Tip.	Widest spread inside.	Points.	Weight.	Habitat.	Owner.
					st. lbs.		
45¾	7¾	25⅛	35⅜	8 × 8	...	Caucasus...	St. George Littledale.
45⅝	6⅛	26⅜	38¼	5 × 5	...	Hungary...	Major-Gen. Arthur Ellis, C.S.I., 1886.
45⅛	7¾	...	...	9 × 6	...	Asia Minor	Sir Edmund G. Loder, Bart.
44¾	6½	33¾	35⅛	7 × 5	...	Caucasus...	St. George Littledale.
44⅝	6¾	39	40	7 × 7	...	Hungary...	Major-Gen. Arthur Ellis, C.S.I., 1886.
44¼	7	31¼	34	6 × 6	...	Caucasus...	St. George Littledale.
44¼	6⅞	(single horn)	...	9	...	Asia Minor	C. G. Danford, British Museum.
43½	6¾	21¾	35	7 × 7	...	Caucasus...	St. George Littledale.
43½	6	...	38½	8 × 6	...	Asia Minor	E. N. Buxton.
43	6½	20⅛	25⅜	8 × 2 (malformed)	...	Caucasus...	St. George Littledale.
42½	6¼	34⅜	37¾	6 × 7	...	Do. ...	Do.
42⅜	6⅜	37¼	41	7 × 7	...	Do. ...	Do. 1887.
41⅞	6½	15⅞	29⅝	6 × 5	...	Do. ...	Do.
41⅞	5¼	...	25¼	6 × 6	...	Germany...	British Museum.
41⅛	5¾	15½	28⅛	6 × 5	...	Caucasus...	H.R.H. Duc d'Orleans.
40⅝	6⅞	(single horn)	...	8	...	Crimea ...	British Museum.
40¼	6	18⅛	28½	6 × 8	...	Hungary...	Major-Gen. Arthur Ellis, C.S.I., 1886.
40¼	5	20¾	27⅜	7 × 6	...	... ...	H.R.H. Duke of Edinburgh.
39⅝	5¼	14½	26⅜	7 × 7	26 11	Ireland (age 8 years).	Sir Victor Brooke's Collection, 1886.
39¼	6	30	33½	6 × 5	...	Caucasus...	St. George Littledale.
*38⅞	5⅜	...	...	5 × 6	...	... ...	Sir Edmund G. Loder, Bart.
38½	4⅞	22½	31	8 × 8	23 11	Ireland (age 10 years).	Sir Victor Brooke's Collection, 1881.
37⅜	5⅝	14¾	26⅛	6 × 7	...	... ...	H.R.H. Duke of Edinburgh.
38⅛	5	26¼	30⅝	7 × 7	25 0	Ireland (age 9 years).	Sir Victor Brooke's Collection, 1884.
37¼	6	32⅛	35⅛	7 × 8	...	Ireland (age 12 years).	Sir Victor Brooke's Collection, 1878.

* Cervus barbarus.

RED DEER (Cervus elaphus)—*continued.*

Length round outside.	Circumference between bez and trez tines.	Tip to Tip.	Widest spread inside.	Points.	Weight.	Habitat.	Owner.
					st. lbs.		
37¼	5	24	29	7 × 7	...	Caucasus ...	H.R.H. Duc d'Orleans.
37¼	5	14¾	24¾	6 × 5	...	... ...	H.R.H. Duke of Edinburgh.
36½	6⅜	...	32½	9 × 9	...	Wairarapa, N.Z.	J. Handyside. (*The Field*, Feb. 6, 1891.)
36½	5¼	19½	24¾	9 × 7	...	... ...	J. Carr Saunders.
*36½	4¾	22⅞	28¾	4 × 4	...	... ...	British Museum.
*36⅜	4½	17½	25⅝	4 × 4	...	... ...	Do.
36	5½	37	...	15	...	South Spain	Lord Lilford.
36	6½	24	30	6 × 6	...	Vaynol Park, North Wales.	Assheton Smith.
35½	5¼	26½	32⅜	13 × 11 (perished)	...	Ireland (dug up).	Sir Victor Brooke's Collection.
35	6	14½	24	6 × 6	...	Vaynol Park, North Wales.	Assheton Smith.
35	...	...	34	10	16 1	North Morar	T. W. Gill. (*The Field*, Dec. 6, 1890.)
35	4¾	...	30	9	...	Ireland ...	Hon. A. Charter's, 1889.
34¾	5¾	20¼	27¾	7 × 8	...	Caucasus ...	H.R.H. Duc d'Orleans.
34⅝	5⅛	(single horn)	...	7	...	Germany ...	British Museum.
34½	5⅛	(shed horns)	...	11 × 9	...	Ireland (still alive).	Sir Victor Brooke's Collection.
34½	5	17¾	26¼	7 × 7	...	... ...	J. Carr-Saunders.
34⅜	5⅛	25¼	29⅜	8 × 9	29 0	Ireland (age 8 years).	Sir Victor Brooke's Collection, 1875.
34¼	4⅛	16¼	24⅜	5 × 5	...	Scotland ...	F. Devas.
34	4¾	...	31½	6 × 5	26 8	Ireland ...	Ralph Sneyd.
34	5¼	34	...	5 × 5	...	Caucasus ...	H.R.H. Duc d'Orleans.
34	...	...	30½	11	17 2	North Morar	T. W. Gill. (*The Field*, Dec. 6, 1890.
34	4½	...	23	6 × 6	...	... ...	H.R.H. Comtesse de Paris.
33¾	5	...	26	5 × 5	...	Muckross, Ireland.	Hon. Mrs. Bourke.
33¾	4⅞	14½	21¾	7 × 6	...	... ...	H.R.H. Duke of Edinburgh.
33⅛	4⅞	17⅝	24½	4 × 4	...	Scotland ...	Lord d'Arcy Osborn.

* Cervus barbarus.

RED DEER (Cervus elaphus)—*continued.*

Length round outside.	Circumference between bez and trez tines.	Tip to Tip.	Widest spread inside.	Points.	Weight.	Habitat.	Owner.
					st. lbs.		
33	4¾	26⅞	31⅝	6 × 6	...	Rosshire ...	E. Lort Phillips.
33	6½	...	30	7 × 7	29 11	Muckross, Ireland.	Hon. A. Bourke.
33	4¾	16	23½	6 × 6	...	Vaynol Park, North Wales.	Assheton Smith.
32¾	4½	...	28	5 × 4	...	Scotland ...	Sir Charles Tennant, Bart.
32⅝	4⅝	(single horn)	...	4	...	... ...	British Museum.
32⅝	4⅛	20¾	29⅞	5 × 5	...	... ...	H. R. H. Duke of Edinburgh.
32½	6	...	32	6 × 6	...	Morar ...	Capt. Gill. (*The Field*, Feb. 6, 1891.)
32⅜	4⅝	24⅞	31⅛	5 × 5	...	... ...	H. R. H. Duke of Edinburgh.
32	5	...	22½	5 × 4	19 0	Scotland ...	Sir W. G. Pearce, Bart.
31¾	3¾	...	26½	4 × 4	...	Do. ...	Capt. F. Cookson.
31¾	4¾	...	25½	6 × 5	...	... ...	A. Brassey.
31½	5	...	26½	12	17 0	Scotland ...	J. F. Laycock.
31½	4¾	...	28	4 × 3	...	Norway ...	E. N. Denny.
31½	4½	...	26½	6 × 4	...	Scotland ...	Sir W. G. Pearce, Bart.
31½	4½	...	24½	5 × 5	...	Norway ...	H. Seton Karr, M.P.
31¼	4⅛	16	24⅛	7 × 5	...	Scotland ...	Capt. F. Cookson.
31¼	4⅝	24⅞	32	5 × 3	...	Rosshire ...	E. Lort Phillips.
31	5	...	22½	12	18 1	Scotland ...	J. F. Laycock.
31	4¼	...	26½	6 × 4	...	Do. ...	Sir W. G. Pearce, Bart.
31	4¼	...	20½	6 × 6	...	Do. ...	W. N. Diggle.
31	4	...	28½	11	15 0	Do. ...	J. F. Laycock.
31	4	...	24½	4 × 4	...	Do. ...	Sir Chas. Tennant, Bart.
30⅞	4⅜	25⅞	28⅛	5 × 6	...	Do. ...	W. R. Cookson,
30¾	4⅝	15⅞	21½	6 × 6	...	Do. ...	Capt. F. Cookson.
30½	4½	...	20	6 × 6	14 7	Do. ...	J. F. Laycock.
30½	4¼	25	25⅞	6 × 4	...	... ...	Col. G. A. Percy.

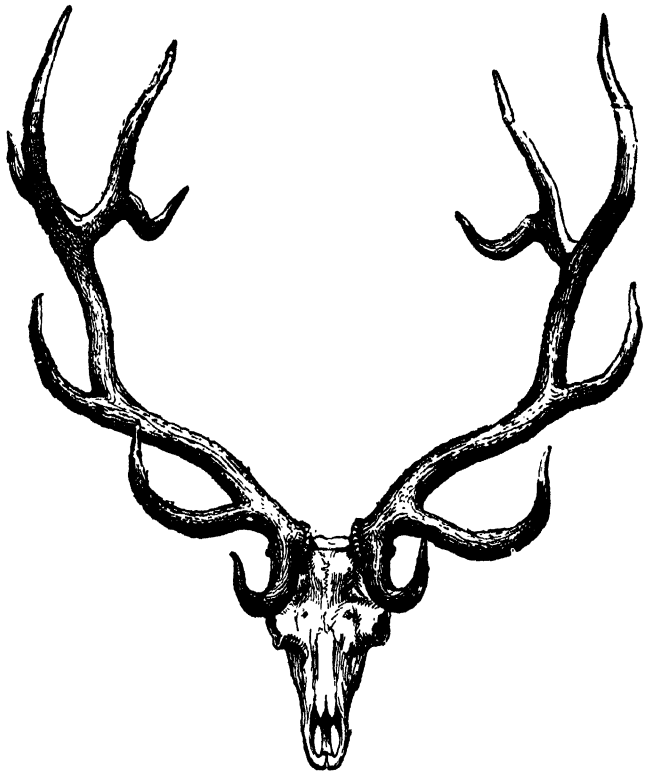
RED DEER (Cervus elaphus)—*continued.*

Length round outside.	Circumference between bez and trez tines.	Tip to Tip.	Widest spread inside.	Points.	Weight.	Habitat.	Owner.
					st. lbs.		
30½	4⅛	23⅛	26⅝	5 × 5	...	Scotland ...	Capt. F. Cookson.
30⅜	4½	14⅛	24⅛	5 × 5	...	Do. ...	Miss Laycock.
30¼	4¼	...	24	6 × 4	...	... ...	E. N. Buxton, 1880.
30⅛	4¼	(single horn)	...	9	...	Germany ..	British Museum.
30	5	...	29	12	20 0	Norway ...	E. M. Denny.
30	4⅛	25⅛	28⅞	4 × 5	...	... ...	Col. G. A. Percy.
29¾	4⅛	21⅝	23⅜	6 × 6	...	Scotland ...	J. F. Laycock.
29⅝	3⅞	26½	28⅜	6 × 6	...	... ...	Col. G. A. Percy.
29½	4½	...	24	4 × 4	14 1	Scotland ...	J. F. Laycock.
29⅜	4¼	23⅜	27½	5 × 5	...	... ...	Col. G. A. Percy.
29¼	3⅞	...	21½	5 × 6	...	Germany...	British Museum.
29⅛	5¼	24⅝	27⅝	3 × 4	...	Scotland ...	Sir William Eden, Bart.
29⅛	4⅝	19½	25¼	5 × 5	...	... ...	Col. G. A. Percy.
29	4½	...	24	4 × 4	...	Scotland ...	W. N. Diggle.
29	4¼	...	29	6 × 5	...	Do. ...	J. F. Laycock.
29	3¾	...	24½	6 × 4	...	Do. ...	J. E. Wilmot.
28¾	3¾	...	23	4 × 3	...	Do. ...	F. Devas.
28½	5¼	...	29	6 × 6	...	Norway ...	E. Lee Townshend.
28½	4½	...	24½	6 × 6	...	Scotland ...	Sir Charles Tennant, Bart.
28½	4½	...	22	6 × 5	18 7	Do. ...	Sir W. G. Pearce, Bart.
28½	4⅜	18⅝	24⅝	4 × 5	...	... ...	H.R.H. Duke of Edinburgh.
28¼	4½	16½	22⅞	5 × 5	...	Scotland ...	W. R. Cookson.
28⅛	4½	29¼	33⅜	6 × 6	...	... ...	Col. G. A. Percy.
28	5	...	23	5 × 3	17 7	Scotland ...	J. F. Laycock.
27⅞	4⅛	17⅝	23⅜	5 × 5	...	Do. ...	Lord D'Arcy Osborn.
27⅞	4	20⅜	27¼	4 × 4	...	... ...	E. N. Buxton.

RED DEER (Cervus elaphus)—*continued.*

Length round outside.	Circumference between bez and trez tines.	Tip to Tip.	Widest spread inside.	Points.	Weight.	Habitat.	Owner.
					st. lbs.		
*27⅛	4	25	25⅜	4 × 3	...	... ...	British Museum.
27	4	...	23	3 × 4	15 9	Scotland ...	F. Devas.
27	5½	...	30⅞	7 × 7	...	Glenquoich	Lord Burton. (*The Field*, Feb. 6, 1891.)
26¼	3¾	15⅝	20½	5 × 6	...	Scotland ...	R. H. Helpman.
25⅝	4⅜	8⅝	16¾	4 × 4	...	Do. ...	B. M. Jenkins.
25½	4½	...	25	6 × 6	15 2	Do. ...	J. F. Laycock.
25¼	3⅝	15¼	18⅝	7 × 6	...	Do. ...	Capt. F. Cookson.
25⅛	3⅝	20	23¾	4 × 4	...	Braemore...	E. N. Buxton, 1869.
25	3¾	...	16½	6 × 5	...	Scotland ...	W. H. Purvis.
24¾	4¼	...	21	5 × 4	...	Norway ...	J. H. Thomas.
24⅜	4	17	19⅞	4 × 3	...	... ...	F. H. J. Underwood.
24⅛	3¾	19¼	21⅝	3 × 3	...	Scotland ...	R. H. Helpman.
24	4¼	...	23	6 × 6	12 13	Do. ...	J. F. Laycock.
23¼	3½	13½	17⅛	2 × 3	...	... ...	H.R.H. Duke of Edinburgh.
20¼	3⅝	extra horn from forehead					

* Cervus barbarus.



WAPITI (Cervus canadensis).

Weight—About 700 lbs. *Height at Shoulder*—About 16 hands.

Habitat—North America.

Length.	Circumference between bez and trez tines.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
62½	8	...	48½	7 × 9	North America	Frank Cooper (American Exhibition Catalogue).
62	7⅜	33¼	50⅝	7 × 7	Do.	Ernest Farquhar.
61½	7⅛	...	45	6 × 7	Do.	Do.
60¾	7⅞	...	52	6 × 6	Do.	W. A. Baillie-Grohman (American Exhibition Catalogue).

WAPITI (Cervus canadensis)—*continued.*

Length.	Circumference between bez and trez tines.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
59¾	13	...	...	...	North America	Sir Samuel Baker ("Wild Beasts and their Ways").
59½	8½	37¼	47	8 × 7	Nebraska ...	Lieut.-Gen. Hankey.
59⅛	7½	...	45	6 × 6	North America	H. Seton-Karr (American Exhibition Catalogue).
58¾	7	32¾	38¼	6 × 6	Do.	Ernest Farquhar.
58½	9	...	46½	10 × 7	Do.	Hon. T. A. Brassey.
58½	8½	(owner's measurement)	43½	6 × 6	Do.	J. D. Cobbold.
58⅛	8¼	39⅝	42¾	7 × 6	Do.	Ernest Farquhar.
57⅜	7	47	48⅝	6 × 6	Do.	Hon. Charles Ellis.
57¼	6¾	30⅜	37¾	7 × 6	Do.	Ernest Farquhar.
*57	7⅞	49	61	8 × 8	Do.	Sir Edmund G. Loder, Bart.
57	7⅛	35⅛	41⅛	6 × 6	Yellowstone Park.	British Museum.
55⅝	7⅝	43¼	48⅛	7 × 7	North America	Hon. Charles Ellis.
55½	7½	...	48¾	6 × 7	Do.	Otho Shaw (American Exhibition Catalogue).
55½	6⅞	33	39	6 × 6	Do.	British Museum.
55½	6½	44	45½	6 × 6	Do.	A. H. Pollen (1891).
55⅜	7⅛	46¼	...	6 × 7	Do.	St. George Littledale.
55⅛	7¼	41⅝	...	6 × 6	Do.	Hon. Charles Ellis.
55	8¼	...	41¼	6 × 6	Do.	Major Maitland Kirwin (American Exhibition Catalogue).
55	7⅛	...	47½	6 × 5	Do.	E. N. Buxton (American Exhibition Catalogue).
55	8	...	45½	7 × 6	Do.	Major Maitland Kirwin (American Exhibition Catalogue).
55	8	...	41	7 × 7	Do.	Rowland Ward's Collection.
55	8⅛	...	41¼	6 × 6	Do.	A. Pendarves Vivian (American Exhibition Catalogue).
55	6½	...	...	6 × 6	Do.	Crawford E. Logan.
54¾	6½	29½	38⅞	6 × 6	Do.	The late J. S. Jameson.
54½	8¾	...	...	6 × 6	Do.	J. D. Cobbold.
54½	...	...	...	14	Do.	P. C. Walker.

* Weight—42½ lbs. With small frontal.

WAPITI (Cervus canadensis)—*continued.*

Length.	Circumference between bez and trez tines.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
54½	7⅛	...	41⅛	6 × 6	North America	British Museum (American Exhibition Catalogue).
54½	7	...	42½	8 × 7	Do.	S. C. Alexander.
54⅜	6½	38⅜	44¼	7 × 6	Buffalo Fork...	E. N. Buxton.
54¼	8	...	43½	10 × 10	North America	W. A. Tullock (American Exhibition Catalogue).
54¼	7⅝	49⅞	...	7 × 9	Do.	Hon. Walter Rothschild.
54	7⅞	...	...	6 × 6	Do.	J. L. Carroll.
54	7½	...	...	6 × 7	Do.	H. Hadden.
54	7¼	...	48	7 × 8	Do.	Earl of Rosslyn (American Exhibition Catalogue).
54	7¼	...	48	7 × 8	Do.	Moreton Frewen (American Exhibition Catalogue).
54	...	...	...	...	Do.	Capt. F. Cookson.
54	...	...	...	14	Do.	W. S. Power.
54	7	...	40¼	...	Do.	British Museum (American Exhibition Catalogue).
53⅛	7¾	24¾	36¼	8 × 8	Do.	St. George Littledale.
53⅛	7⅜	47	49¾	8 × 7 (palmated)	Do.	Ford G. Barclay.
53	12½	...	...	...	Do.	Sir Samuel Baker ("Wild Beasts and their Ways").
52¾	8¼	...	41	6 × 6	Do.	Frank Cooper (American Exhibition Catalogue).
52¾	7½	34⅝	42⅜	7 × 7	Do.	St. George Littledale.
52½	7½	(owner's measurement)	...	12	Do.	W. H. Hammersley.
52½	7⅜	...	37¼	6 × 6	Do.	Sir H. Rae Reid, Bart. (American Exhibition Catalogue).
52½	6½	...	34¾	7 × 6	Do.	Ford G. Barclay.
52⅜	5¾	49⅜	...	6 × 5	Do.	Col. Ralph Vivian.
52	8½	...	...	6 × 6	Do.	Hon. F. Thellusson.
52	6⅛	...	...	14	Do.	Do.
52	6	37¾	40	6 × 6	Do.	Capt. F. Cookson.
51¾	6¾	29	38⅞	6 × 6	Do.	A. H. Pollen.
51⅝	6¾	39	41½	6 × 6	Del Nord Creek	E. N. Buxton (1884).

WAPITI (Cervus canadensis)—*continued.*

Length.	Circumference between bez and trez tines.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
51½	6⅞	...	...	6 × 7	North America	J. L. Carroll.
51	7	...	36¾	9 × 8	Do.	J. G. Millais (American Exhibition Catalogue).
51	...	36	...	12	Do.	W. S. Power.
50⅝	7⅜	42	48¼	7 × 7	Do.	Col. Ralph Vivian.
50½	8	39	42	6 × 6	Do.	S. Lewis.
50½	7½	35	41	6 × 6	Do.	H. S. Somerset.
50½	6	...	...	12	Do.	E. F. Heneage.
50½	...	28	...	13	Do.	W. S. Power.
50¼	6¼	...	43	6 × 6	Do.	Gerald Buxton (American Exhibition Catalogue).
50	11	...	...	13	Do.	T. W. H. Clarke.
50	10½	...	54	6 × 6	Do.	Capt. L. Payne.
50	7⅛	...	47½	6 × 6	Do.	J. M. Hanbury (American Exhibition Catalogue).
49⅞	6¾	33⅝	45	6 × 6	Do.	H. R. H. Duke of Edinburgh.
49¾	7	32	35⅛	7 × 8	Do.	J. Carr-Saunders.
49¾	6⅞	24	30⅝	6 × 6	Do.	Capt. F. Cookson.
49⅝	6⅝	34¾	36⅝	6 × 6	Do.	Hugh G. Barclay.
49½	7⅜	45¼	45¼	7 × 7	Do.	H. R. H. Duc d'Orleans.
49½	6½	25	30½	6 × 6	Do.	A. H. Pollen.
49⅜	7⅝	38⅞	...	10 × 15	Do.	Moreton Frewen.
49⅛	6¼	...	45¼	13	Do.	W. A. Fordham.
49	...	35½	46¼	12	Do.	W. S. Power.
48⅝	7	30⅜	37⅜	6 × 7	California ...	C. Pentland, British Museum.
48½	8⅜	31½	34½	6 × 7	North America	Hon. Charles Ellis.
48½	6	29	33¼	6 × 7	Do.	The late J. S. Jameson.
48	11½	...	...	17	Do.	T. W. H. Clarke.
48	10½	...	...	13	Do.	Do.

WAPITI (Cervus canadensis)—*continued.*

Length.	Circumference between bez and trez tines.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
48	8½	...	...	12	North America	Ford G. Barclay.
48	7¾	...	...	8 × 6	Do.	Do.
48	7	...	41	14	Do.	Hon. F. Thellusson.
48	6½	...	44½	12	Montana ...	W. A. Fordham.
47¾	7⅛	31	32¼	9 × 9	North America	Col. G. A. Percy.
47½	6¼	...	39	7 × 6	Do.	Ford G. Barclay (American Exhibition Catalogue).
47¼	8⅛	49¾	51	8 × 12	Do.	Moreton Frewen.
47⅛	7¼	40	41	7 × 7	Do.	Sir Victor Brooke's Collection, 1869.
46⅝	7	43	43	9 × 10	North America	Hon. Charles Ellis.
46¼	6½	41½	43	6 × 7	Do.	A. H. Pollen.
46¼	6	39	39¼	6 × 6	Montana ...	R. H. Sawyer.
45¾	7	...	43¼	7 × 7	Do. ...	Thomas Bate (American Exhibition Catalogue).
45⅝	7	33½	33¾	11 × 9	Do. ...	Hon. Charles Ellis.
45½	7½	...	26	8 × 6	Wyoming ...	Ford G. Barclay.
44½	6½	27¾	31¾	7 × 7	Do. ...	F. J. Horniman.
44½	6	...	...	7 × 7	Do. ...	Crawford E. Logan.
44	7	...	32½	6 × 7	Do. ...	Lord Stradbrooke.
43½	6⅞	...	36¼	5 × 7	North America	British Museum.
43	6¾	...	50¼	12	Montana ...	W. A. Fordham.
43	6½	...	39¼	12	Wyoming ...	Hon. F. Thellusson.
41½	5¼	36⅛	36⅛	6 × 6	Do. ...	Col. G. A. Percy.
40¾	5¾	38½	...	6 × 6	... ...	J. C. L. Knight-Bruce.
35⅝	4½	11⅝	22⅞	6 × 5	North America	British Museum.
35½	4⅞	24½	25⅜	5 × 5	Do.	Do.
31	16½	...	...	...	... ...	Frank Cooper.

PERSIAN DEER (Cervus maral).

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
48⅝	6⅛	38¼	40⅞	6 × 5	Altai	British Museum.
40¼	5½	23¾	31¾	5 × 5	... ...	Hume Collection, British Museum.
35⅛	5½	19¾	26	5 × 5	... ...	Do.

KASHMIR STAG, or BARASINGH (Cervus cashmerianus).

This stag is closely allied to the Red Deer.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
47	6¾	21¾	36⅜	5 × 5	... ...	Sir Edmund G. Loder, Bart.
45⅝	6	25¾	36	8 × 8	Kashmir ...	Sir Victor Brooke's Collection.
45⅞	8	35	41	6 × 6	... ...	Hume Collection, British Museum.
43⅞	5⅞	15⅞	32	5 × 5	... ...	The Hon. Charles Ellis.
43⅜	6½	25⅜	36½	...	... ...	Do.
43¼	6½	18⅛	34½	5 × 5	... ...	Hume Collection, British Museum.
43	5⅞	6¼	27¾	5 × 5	Nepal... ...	Dr. Falconer, British Museum.
43	5⅞	26⅛	37⅞	6 × 5	... ...	Martyn Kennard.
42	5⅞	29⅜	33½	6 × 5	... ...	British Museum.
41¾	6⅜	27¼	35	6 × 6	... ...	Martyn Kennard.
41⅜	5¾	23¾	33	5 × 5	... ...	R. Lydekker, British Museum.
41¼	5¼	34	49	6 × 5	... ...	C. H. Seeley.
40¾	5¾	15⅜	31¼	5 × 5	... ...	Rowland Ward's Collection.
39⅝	5⅜	20	26⅛	5 × 5	... ...	British Museum.
39	5⅛	17½	29½	6 × 5	Kashmir ...	Sir Victor Brooke's Collection, 1869.

KASHMIR STAG, or BARASINGH (Cervus cashmerianus)—*continued.*

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
38¾	6¼	26	30¾	6 × 6	... ...	Hume Collection, British Museum.
37⅞	5¾	19¼	28¾	8 × 7	... ...	The Hon. Charles Ellis.
36½	5⅝	21½	25⅝	7 × 5	... ...	British Museum.
36⅜	4¾	17¾	22¼	6 × 6	... ...	Do.
35⅛	5¼	23⅜	30½	5 × 5	... ...	Dr. Falconer, British Museum.
33	4½	9¾	...	9	... ...	Capt. Goulburn.

SHOU, or SIKKIM STAG (Cervus affinis).

THIS is one of the largest deer in Southern Asia, standing sometimes 15 hands, and closely approaches the American Wapiti in the measurements of the horns.

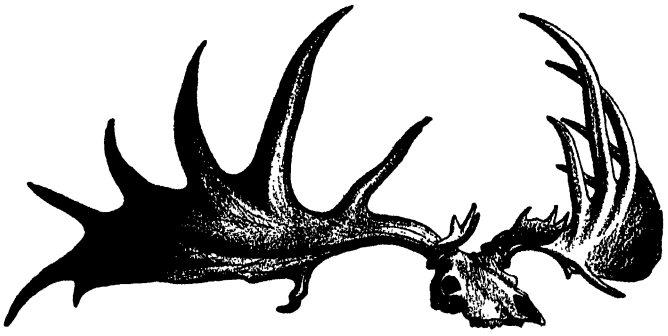
Habitat—Eastern Tibet.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
55¾	6½	17¼	40⅜	7 × 6	... ...	A. O. Hume, Private Collection.
55	8½ × 9⅛	(owner's measurement)	...	6 × 7	... ...	Lord Northbrooke.
54⅜	6⅝	21⅝	37¼	5 × 5	India ...	Dr. Campbell, British Museum.
53¾	6⅞	26⅛	44	5 × 5	Nepal ...	B. H. Hodgson, British Museum.
53¼	6⅞	30	45¾	4 × 5	... ...	Hume Collection, British Museum.
53	9	(owner's measurement)	40	5 × 5	Darjeeling	Col. Tanner.
52	8	(shed horns)	...	...	... ...	Rowland Ward's Collection.
48⅞	6½	19⅜	38⅛	5 × 7	... ...	Sir Edmund G. Loder, Bart.
48	6⅛	29½	41½	6 × 6	... ...	Hume Collection, British Museum.
47⅞	5⅝	30⅜	40½	5 × 5	North India	British Museum.
43¾	5⅞	20⅛	35	6 × 5	... ...	A. O. Hume, Private Collection.
42¾	5⅞	23⅝	31¼	5 × 5	Nepal ...	British Museum.
40½	5	39¼	41	5 × 5	North India	B. H. Hodgson, British Museum.

FALLOW DEER (Cervus dama).

Habitat—Europe.

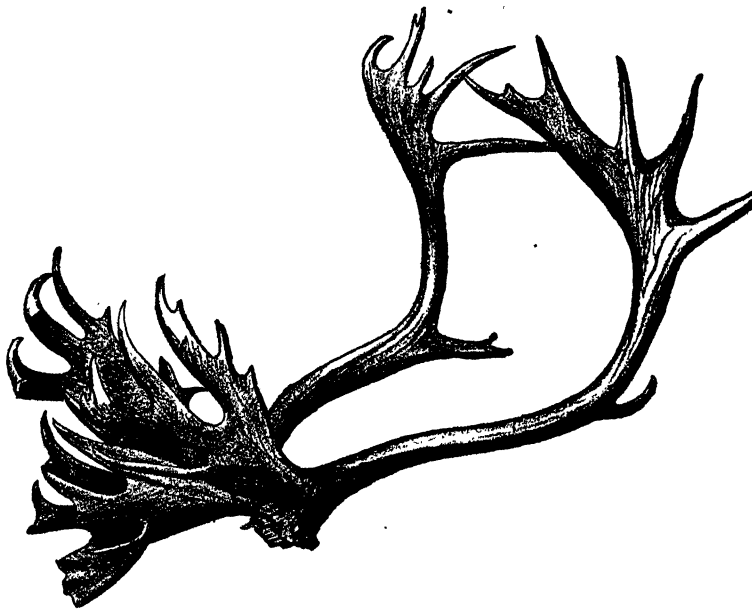
Length.	Circumference.	Tip to Tip.	Spread inside.	Points.	Width of Palm.	Habitat.	Owner.
21⅜	4⅜	...	...	11 × 10	5	Colebrooke Woods (Ireland).	Sir Victor Brooke's Collection.
28⅜	4⅛	...	26	10 × 8	6	Do.	Do.
27⅜	3⅞	20¼	22½	10 × 9	5⅛	Do.	Do.
27¼	4	23	...	10 × 8	...	... ...	J. Carr-Saunders.
26⅞	3¾	12	17½	7 × 10	...	... ...	British Museum.
26⅝	4	24⅛	...	8 × 12	5	Ireland	Sir Victor Brooke's Collection.
25½	...	...	26	...	5¼	England ...	Rowland Ward's Collection.
25⅜	4¼	26	...	8 × 8	5⅛	Ireland	Sir Victor Brooke's Collection.
24½	3⅝	16	19⅞	11 × 11	...	... ...	British Museum.
19¼	2⅞	16¼	17½	7 × 5	...	... ...	Do.



IRISH ELK (Cervus giganteus).

(*Extinct.*)

Spread Tip to Tip.	Length round inside of horn.	Circumference above burr.	Width of Palm.	Points.	Owner.
ft. in. 10 2	ft. in. 5 8½	9⅞	19¼	19	British Museum.
9 8	...	...	...	...	Rowland Ward's Collection.
9 5	...	...	27	13 × 15	Sir Edmund G. Loder, Bart.
9 2	13 6 (of both horns)	...	15½	(owner's measurement)	Mrs. Graham Lloyd.
8 11¾	6 1¾	8¾	17¾	10 × 13	Hon. Charles Ellis.
8 10	12 10 (of both horns)	...	13½	(owner's measurement)	Mrs. Graham Lloyd.
7 6	5 3½	8⅝	...	10 × 11	Sir Victor Brooke's Collection.



REINDEER, or CARIBOU (Rangifer tarandus).

Weight of a full-grown Reindeer after grallocking—From 250 lbs. to 350 lbs.

Habitat—Europe, Asia, and America.

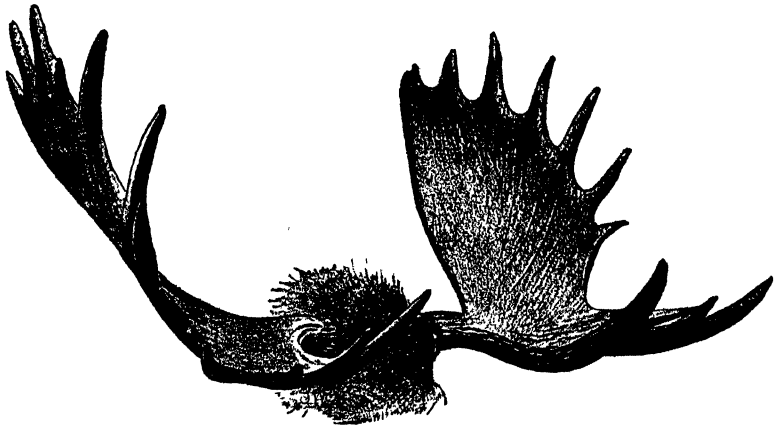
Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
60	5⅝	38⅝	41⅛	15 × 22	... ...	Sir Victor Brooke's Collection.
57⅝	5¼	13⅜	...	13 × 7	Arctic Regions ...	British Museum.
57⅛	5	35¼	...	8 × 10	... ...	Do.
54⅜	4⅞	20¼	...	11 × 13	North America ...	Capt. Sir J. Franklin, British Museum.
51⅜	4⅞	40⅞	48⅜	17 × 14	... ...	Sir Edmund G. Loder, Bart.
50⅜	4⅞	24	29 (outside)	13 × 16	... ...	H.R.H. Duke of Edinburgh.
49	4⅛	24⅝	32⅜	7 × 9	... ...	Hon. Walter Rothschild.
48	6½	11⅞	25½	15 × 17	... ...	Sir Edmund G. Loder, Bart.

REINDEER, or CARIBOU (Rangifer tarandus)—*continued.*

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
47⅜	5⅛	32⅛	...	12 × 19	North America ...	A. Murray, British Museum.
47	5½	...	34½	...	... ...	E. D. Gosling.
46¼	5⅜	29⅜	...	15 × 15	... ...	British Museum.
46	4½	...	34	...	... ...	Hon. A. Broderick.
45⅞	6	10	...	20 × 27	... ...	British Museum.
45½	5⅜	34⅜	...	23 × 16	... ...	Do.
43¾	5⅜	40	41⅞	16 × 11	Newfoundland ...	St. George Littledale, 1876.
42½	7¼ (Brow antler 17½ in. long, 6in. wide)	33¼	38½	(Owner's measurement)	... ...	R. Gordon Smith.
42	6½	...	18½	33	Alaska	Earl of Lonsdale.
41¼	4⅛	...	28⅜	8 × 6	... ...	Col. G. A. Percy.
41⅛	4¾	...	24½	12 × 9	... ...	W. D. James.
41	...	...	...	...	Alaska	Earl of Lonsdale.
40¾	4½	20½	28¼	17 × 14	... ...	J. Carr Saunders.
40	6⅜	20¾	(In velvet)	13 × 14	Hudson Bay ...	British Museum.
39⅛	4	16	...	13 × 13	North America ...	Do.
39	5⅝	...	23¼	14 × 17	... ...	Sir Victor Brooke's Collection.
38¾	4⅞	15⅜	19¾	10 × 4	... ...	J. Carr Saunders.
38¾	4	25¼	...	7 × 5	Norway... ...	C. Ingram, British Museum.
38⅜	5⅜	21¾	30⅛	16 × 16	... ...	Sir James Anderson.
38	5½	21½	...	15 × 13	Norway... ...	W. H. Ingram, British Museum.
37⅞	4⅞	31¾	...	14 × 17	... ...	British Museum.
37¾	4⅞	21⅜	...	12 × 10	... ...	Do.
37⅝	5¼	18¼	25¼	18 × 12	... ...	F. J. Horniman.
37½	5½	...	29	...	... ...	Otho Shaw (American Exhibition Catalogue).
37¼	5⅝	...	24	27	... ...	Lieut. Wm. Tait.
36¾	3¾	13¼	...	7 × 9	North America ...	Capt. Sir J. Franklin, British Museum.
36¼	5⅞	24⅜	...	14 × 15	... ...	British Museum.

REINDEER, or CARIBOU (Rangifer tarandus)—*continued.*

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
36	6⅜	17	...	19 × 13	Nova Scotia ...	J. Florence, British Museum.
36	4½	...	30	...	... ...	Otho Shaw (American Exhibition Catalogue).
34⅞	5⅝	23	...	18 × 16	Arctic Regions ...	British Museum.
34¾	4	12¾	...	17 × 11	... ...	Do.
34½	5	21½	...	18 × 15	North America ...	A. Murray, British Museum.
34½	4⅝	12⅜	19½	10 × 13	Do. ...	Capt. F. Cookson.
32¾	3¼	31⅝	...	3 × 14	Northern Europe.	British Museum.
32	3⅛	18¼	...	7 × 8	North America ...	Do.
31⅜	4¾	...	23½	11 × 10	... ...	F. J. Horniman.
30¼	4¼	19	23½	7 × 9	Newfoundland ...	St. George Littledale, 1876.
29¼	3⅜	20⅜	...	7 × 10	... ...	E. N. Buxton, 1867.
28½	3⅜	27	...	6 × 10	North America ...	Capt. Sir J. Franklin, British Museum.
28¼	4⅜	13⅛	21¾	12 × 11	Do. ...	Capt. F. Cookson.
24¼	3	12½	...	4 × 4	Hudson Bay ...	British Museum.
23¼	3⅜	14⅝	...	11 × 11	... ...	Do.
21¼	2½	12⅝	...	11 × 14	North America ...	Capt. Sir J. Franklin, British Museum.
19¼	3⅛	22⅛	...	5 × 5	... ...	British Museum.



ELK, or MOOSE (Alces machlis).

Weight—About 900 lbs.

Habitat—Northern Europe and North America.

Length to longest tine.	Circumference above burr.	Tip to Tip.	Greatest width.	Breadth of Palm.	Points.	Habitat.	Owner.
39⅞	6½	...	51⅜	15¾	12 × 13	... ...	British Museum.
39½	8½	...	39½	13¾	...	N. America	Otho Shaw (American Exhibition Catalogue).
39¼	7⅝	33½	49⅛	11½	10 × 12	Do.	J. Carr-Saunders.
39⅛	7⅝	36¼	51¾	9½	7 × 8	Do.	J. C. L. Knight Bruce.
39	8¼	38½	57	12½	15 × 12	Do.	Sir Edmund G. Loder, Bart.
38½	7	...	52⅞	10⅞	10 × 11	... ...	British Museum.
38¼	6⅛	34	49½	9¾	9 × 9	N. America	Sir Victor Brooke's Collection.
38	6½	...	59¼	9¾	11 × 11	... ...	H. R. H. Duke of Edinburgh.
37¾	8	...	51½	11¼	14 × 13	N. America	F. Ashby.
37½	...	...	49½	20	...	Do.	Rowland Ward's Collection.
37¼	7⅛	35	50⅝	11⅝	13 × 10	... ...	Hon. Charles Ellis.
37¼	6⅞	...	43¾	8¾	11 × 9	... ...	British Museum.
36¾	6⅞	...	47⅞	10½	8 × 8	... ...	Do.
36⅝	6¾	...	46⅞	11	12 × 10	... ...	Do.

ELK, or MOOSE (Alces machlis)—*continued.*

Length to longest tine.	Circumference above burr.	Tip to Tip.	Greatest width.	Breadth of Palm.	Points.	Habitat.	Owner.
34½	6⅝	...	51½	9⅜	11 × 12	... ...	British Museum.
34¼	6⅝	42	51⅛	9½	10 × 9	... ...	G. Marchetti.
34¼	6⅜	...	47½	9¾	13 × 11	... ...	British Museum.
32	6⅞	...	43⅜	9½	7 × 8	Russia ...	Sir Edward Caley, British Museum.
31⅝	6½	...	38⅝	7⅞	6 × 5	... ...	British Museum.
31½	...	...	51½	12½	...	N. America	Earl of Lonsdale.
31	6½	...	42½	8½	10 × 9	... ...	F. J. Horniman.
30½	(owner's measurement)	40	44	8⅜	17	Norway ...	Thomas Bate.
30⅛	7⅛	29½	44¼	10	8 × 9	... ...	Sir Victor Brooke's Collection.
29¾	6	...	40⅛	8½	8 × 8	... ...	British Museum.
29⅝	6⅛	...	45	9⅜	10 × 9	... ...	F. J. Horniman.
29¼	7	...	40	5⅛	6 × 5	... ...	British Museum.
29	7½	...	43½	10½	24	Norway ...	P. C. Walker.
28¾	7⅜	35	49⅞	12½	11 × 11	... ...	Hon. Charles Ellis.
28½	6¾ (owner's measurement)	31½	40½	9⅜	11 × 11	Norway ...	Thomas Bate.
28	7½ (owner's measurement)	34½	42½	...	16	Do. ...	Do.
27⅝	5¾	30	40⅞	7⅜	8 × 7	N. America	Capt. F. Cookson.
27½	...	...	49½	10½	...	Do.	Earl of Lonsdale.
27⅜	6⅛	24¾	37⅜	7	6 × 6	Do.	J. C. L. Knight Bruce.
26⅞	6⅝ (single horn)	...	...	7⅛	...	... ...	British Museum.
26⅝	6½	...	45⅛	3¾	5 × 5	... ...	Do.
26⅛	6½	...	39⅜	6⅞	5 × 4	S. Russia...	Do.
25	6	...	44½	...	22	Norway ...	Major Sulivan.
23½	5¾	...	35¾	5⅞	5 × 3	Tydal ...	E. N. Buxton, 1886.
23	...	...	28½	8	...	Norway ...	H. C. Hambro.
19¾	5½	...	37¾	7	6 × 7	... ...	E. N. Buxton.
16	...	...	29	5	...	Norway ...	H. C. Hambro.

ROE DEER (Capreolus caprea).

Habitat—Europe and Western Asia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
9⅞	3¾	5¾	Kirdels Wood, Ireland	Sir Victor Brooke's Collection, 1880.
9⅞	5	5	Dorsetshire	J. E. Harting.
9½	3¼	3⅛	Kirdels Wood, Ireland	Sir Victor Brooke's Collection, 1880.
9¼	3	7⅜	Easter Elchies ...	Do. 1875.
9	4	4½	... ...	Rowland Ward's Collection.
8½	3 (malformed)	5⅞	Nairnshire	Earl Cawdor, British Museum.
8½	3	4½	France	British Museum.
8½	3¼	4⅛	Westphalia	Do.
8	4	3¾	Inverness	Sir Victor Brooke's Collection.
6⅞	3	6	Dorset	J. Fraser.
4¼	2¼ (velvet)	4½	Astrabad	Col. Beresford Lovett, Brit. Museum.

SIBERIAN ROE DEER (Capreolus pygargus).

Habitat—Siberia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13¾	3	6	Asia	British Museum.
13¼	4	8⅞	South Manchuria ...	H. E. M. James, British Museum.
11⅜	4	8⅛	China	British Museum.
8⅞	3⅜	7⅝	Siberia	Do.

LONG-TAILED DEER (Cariacus leucurus).

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
25¼	4¾	12⅞	17⅞	11 × 9	... ...	British Museum.
23½	4¼	2⅝	13	8 × 9	... ...	Do.
20⅛	3¾	10	14½	11 × 7	... ...	Do.
16⅞	3⅛	9⅜	13⅝	4 × 3	... ...	Do.

VIRGINIAN or WHITE-TAILED DEER
(Cariacus virginianus).

VIRGINIAN or WHITE-TAILED DEER (Cariacus virginianus).

Weight—About 180 lbs.

Habitat—North America from the Atlantic to the Pacific, extending into British Columbia in the North and Mexico in the South.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
27⅝	5⅜	(single horn)	...	16	North America	British Museum.
27⅛	4⅜	14¼	19	6 × 6	Do.	Do.
25¾	4½	9	19	11	Do.	H. S. Wellcome.
25⅜	4⅝	10⅜	19	13 × 15	Texas	Capt. F. Cookson. (*See Illustration.*)
24⅞	5	(single horn)	...	19	North America	British Museum.
24½	4½	12⅜	18½	6 × 6	Do.	J. Carr-Saunders.
24½	4⅛	11⅛	19½	6 × 6	Do.	British Museum.
24	4½	14½	19⅞	10 × 6	... ...	Do.
22¾	5⅝	8¼	16⅞	16 × 19	North America	Do.
21½	3¾	7¼	16⅜	7 × 5	Wisconsin ...	Do.
21	3⅞	7½	14½	4 × 4	North America	Do.
20⅝	3⅞	4¾	14⅜	4 × 5	Do.	Do.
20½	4⅛	9⅝	15¾	5 × 6	Do.	Do.
19¾	4⅛	7⅝	17⅜	...	Do.	F. J. Horniman.
19½	4	...	19¾	12	Do.	H. S. Wellcome.
18⅞	3½	8⅛	14½	6 × 5	Do.	Sir Victor Brooke's Collection.
17¾ (about)	4¾	...	...	27 × 25	Do.	Moreton Frewen.
16¾	4¼	3¾	12⅝	5 × 4	Do.	British Museum.
15½	3⅞	4	11⅜	5 × 6	Do.	Do.
13¼	5	3⅜	6¾	5 × 6	Do.	Capt. Townley Parker.

MEXICAN DEER

(Cariacus mexicanus; Cervus paludosus; Blastoceros paludosus).

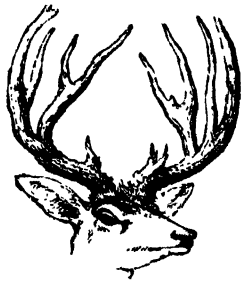
[Sir VICTOR BROOKE, P.Z.S. 1878, p. 920.]

DIMENSIONS OF CARIACUS MEXICANUS.

	English inches.
Height at shoulder	27·5
Length of ears	4·3
Do. tail exclusive of hair	5·5
Total length of skull in a straight line	9·0
Length from ant. rim of orbit to free extremity of præ maxillæ	4·5
Length of molar and premolar series (upper) ...	2·7
Do. antlers	7·5
Greatest span	8·2

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
*23⅜	5⅛	15¾	16¼	4 × 5	South America	British Museum.
23¼	6	...	19½	12	Do.	G. R. Stuart.
†22⅝	6¼	20	20½	5 × 5	Brazil	Sir Victor Brooke's Collection.
*21¼	7⅛	9⅝	16	4 × 3	South America	British Museum.
*18⅜	5½	20⅝	...	4 × 5	Do.	Do.
17½	4¼	...	11	10	Do.	Hon. Walter Rothschild.
13⅝	3⅜	6⅞	11¾	3 × 3	Mexico ...	British Museum.
*13½	4¾	15	...	4 × 4	South America	Do.
8¼	2⅛	4¾	6⅝	3 × 4	Mexico ...	Sir Victor Brooke's Collection.

* Blastoceros paludosus. † Cervus paludosus.



BLACK-TAILED DEER (Cervus columbianus).

Weight—About 200 lbs.

Habitat—California, Oregon, Washington, and along the Pacific Coast.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
28⅝	4½	13¼	17¾	5 × 5	... ...	F. G. Barclay.
27	5¼	19½	21⅝	6 × 5	North America	Sir Edmund G. Loder, Bart.
26⅛	4⅛	15⅞	22⅞	6 × 6	Wyoming ...	Capt. F. Cookson.
26	5¼	...	26	10 × 10	... ...	Wm. Marr.
26	...	...	18	7	... ...	W. S. Power.
25½	5½	...	21½	8	... ...	P. C. Walker.
25⅜	4⅛	19	20	5 × 5	... ...	C. H. Pollen.
25¼	...	...	18	10	... ...	W. S. Power.
25	4½	...	23	10	... ...	C. P. S. Porter.
24½	5½	...	25	10	... ...	T. W. H. Clarke.
24½	5	...	19	10	... ...	W. G. Rathbone.
24½	5	...	18	12	... ...	Capt. F. Cookson.
24½	5¼	...	23½	10	... ...	H. S. Wellcome.
24⅛	4¼	21⅜	23½	5 × 5	... ...	J. Carr-Saunders.
24	5½	...	...	8 × 5	... ...	F. G. Barclay.
23½	...	...	15½	11	... ...	W. S. Power.
22¾	3⅞	15	19¾	5 × 4	... ...	J. Carr-Saunders.
22¼	4	16⅛	19¾	5 × 5	... ...	Col. J. A. Percey.
22	5	...	...	9 × 7	... ...	F. G. Barclay.
21½	3¾	6¼	...	7 × 7	... ...	British Museum.
19¼	4¼	14	16½	3 × 3	Mouterey, California.	Sir Victor Brooke's Collection.
18¼	3¾	13¼	...	3 × 3	... ...	British Museum.

PAMPAS DEER (Cariacus campestris).

Habitat—South America.

Length.	Circumference.	Tip to Tip.	Points.	Habitat.	Owner.
14⅝	2⅝	13¼	3 × 3	La Plata ...	British Museum.
12½	2⅛	8½	3 × 3	... ...	Sir Victor Brooke's Collection.
11¾	2¾	14¼	3 × 3	... ...	Do.
11⅛	3⅞	13¼	3 × 3	... ...	Charles Darwin, British Museum.
10⅜	2½	13⅛	3 × 3	North Patagonia	British Museum.

PERUVIAN ROE DEER (Cariacus (furcifer) antisiensis).

[Dr. J. E. Gray, F.R.S., P.Z.S. 1869, p. 498.]

The horns divide from the base into two branches; the front one is erect, conical, and acute, with a short conical branch on the outer side, and in the middle one or two more or less elongate, basal anterior or interior snags. The hinder part of the base and sheath compressed, diverging horizontally into a strong, angular, tapering branch, which is nearly as long as the erect one, with several irregularly placed, more or less elongate, acute processes; the upper part, near the roots, with one or two cylindrical diverging branches on its upper and lower sides. Like the small branches on the erect part of the horn, they are not exactly similar on the two horns.

The metatarsus is without any glandular tuft on the outside. On the inner side of the hock is a large rounded tuft of such hairs. The fur consists of thick, elastic, tubular quills. The skull has a well-marked, deep, triangular pit in the front of the orbit. The female is without horns. This animal may be called Xenelaphus huamel.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
9½	7⅝	4⅝	Tinta, South Peru	H. Whitely, British Museum.
9⅜	2½	8½	Ceuchepate, Peru (11,000 ft.)	Do.

MULE DEER (Cariacus macrotis).

THIS variety has much larger ears than the White-tailed or Black-tailed Deer, and owing to its having the tip of the tail black, is often called Black-tail.

Habitat—Includes Oregon, Nebraska, Dakota, West of Missouri, Colorado, and Kansas.

Length.	Circumference.	Tip to Tip.	Widest inside.	Points.	Habitat.	Owner.
30	5¾	...	41 (owner's measurements)	17	White River, Colorado, N. America.	H. A. James.
28½	...	...	24½	...	Do.	Major Maitland Kirwin. (American Exhibition Catalogue.)
27½	...	...	26½	...	Do.	Do.
26¾	...	...	...	26	Do.	W. A. Baillie Grohman. (American Exhibition Catalogue.)
26¾	4¾	19⅝	20⅛	5 × 5	Do.	Ernest Farquhar.
26½	5¾	...	17½	12	Do.	Hon. F. Thellusson.
26½	5¼	...	19	11	Do.	Do.
25	5¼	27⅜	27⅜	16 × 13	Do.	Moreton Frewen.
24½	5½	...	21	21	Do.	Ford G. Barclay.
24½	5	...	38½ (outside points)	33	Do.	Hon. F. Thellusson.
24	5¼	...	20¼	10	Do.	William Fox.
24	4½	11¾	18⅛	12 × 11	Do.	E. N. Buxton.
23¼	...	...	31	5 × 5	Do.	Noble Jenkins.
23	6	...	12½	13	Do.	Ford G. Barclay.
22⅜	4⅜	14⅞	17½	5 × 4	Yellowstone River	British Museum.
22⅜	4	10⅝	18¼	6 × 6	Do.	Do.
22¼	3¾	16⅝	18¼	5 × 5	North America...	Sir Victor Brooke's Collection.
22⅛	4	12½	16⅜	4 × 4	Yellowstone River	British Museum.
21⅝	4¾	17½	19¼	5 × 4	Kansas	Sir Victor Brooke's Collection, 1872.
21	6¾	...	28	26	North America...	J. Turner-Turner.
19⅞	3¾	11½	15½	5 × 5	Yellowstone River	British Museum.

PRONG-HORNED ANTELOPE (Antilocapra americana).

Weight—About 80 lbs. clean. *Habitat*—North America.

Length.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner.
15¾	6¼	5⅞	...	Wyoming ...	St. George Littledale, 1879.
15⅛	6¼	7⅝	...	North America...	Col. Ralph Vivian.
15	5⅝	5¾	...	Wyoming ...	St. George Littledale, 1879.
14⅞	5	5¼	...	New Mexico ...	Capt. F. Cookson, 1887.
14¾	6	5⅞	...	Wyoming ...	St. George Littledale, 1879.
14½	6⅜	4¼	...	North America...	Col. Ralph Vivian.
14½	6¼	...	14	Do. ...	Rev. J. H. Douglas.
14½	6	...	9½	Do. ...	Ford G. Barclay.
14¼	6	2⅝	8⅛	Do. ...	Sir Victor Brooke's Collection.
14¼	5¼	2⅞	...	New Mexico ...	Capt. F. Cookson, 1887.
14	5½	9¼	...	North America...	J. Carr-Saunders.
13⅞	5¾	5⅝	...	Do. ...	Gerald Buxton, 1884.
13½	5⅞	5⅜	...	New Mexico ...	Capt. F. Cookson, 1887.
13¼	5½	...	10¾	North America...	William Fox.
13	6¼	9½	...	Do. ...	Rowland Ward's Collection.
13	5¾	...	...	Do. ...	P. C. Walker.
13	5½	...	5½	Do. ...	Crawford E. Logan.
12⅞	6½	9⅜	...	Wyoming ...	St. George Littledale, 1879.
12⅞	5¼	6⅝	...	North America...	The late J. S. Jameson.

PRONG-HORNED ANTELOPE (Antilocapra americana)—*continued.*

Length.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner.
12⅝	6½	5	...	North America...	Hon. Walter Rothschild.
12½	6⅜	5½	10½	Do. ...	J. L. Carroll.
12½	5½	...	9½	Do. ...	William Fox.
12⅜	5¾	4⅞	...	Do. ...	E. N. Buxton, 1884.
12	5½	...	15	Do. ...	M. Tilden.
11¾	5¾	...	...	Do. ...	Gerald Buxton. (American Exhibition Catalogue.)
11⅛	5⅛	4	...	Do. ...	F. J. Horniman.
10¾	5⅞	6⅝	...	Mexico	British Museum.
10½	5¼	7	8	North America...	J. L. Carroll.
9½	6½	...	10	Do. ...	H. G. C. Bishop.
6⅜	4½	10	...	Yellowstone River	British Museum.
6⅛	...	8¾	...	Do.	Do.
5¾	5⅛	...	...	North America...	Otho Shaw. (American Exhibition Catalogue.)

BUBALINE ANTELOPE (Bubalis bubalinus).

Habitat—North Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
14½	8⅝	9⅜	North Africa	British Museum.
14⅛	6¾	9¾	Soudan	Col. Ralph Vivian.
13⅛	7	5¼	North Africa	Zoological Society, British Museum.

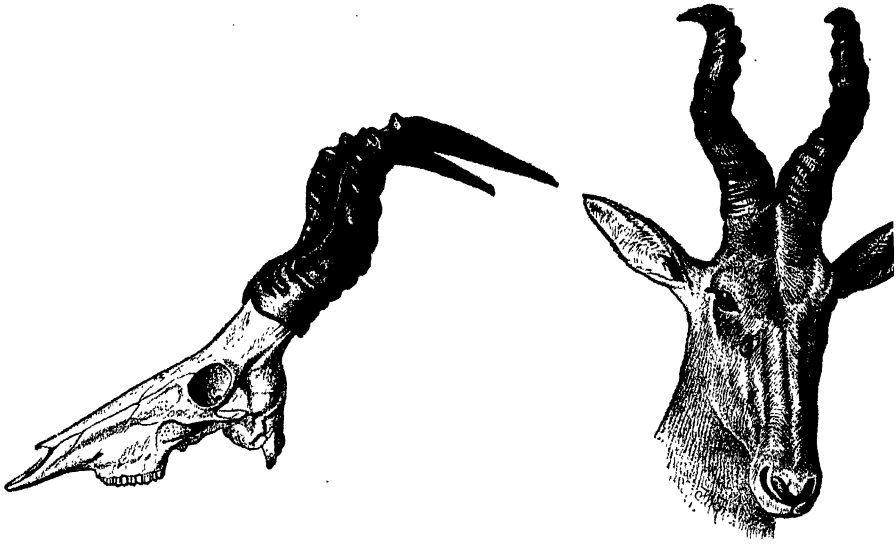
HARTEBEESTE (Bubalis caama).

Habitat—South Africa: Griqualand West, Eastern border of the Kalahari desert and eastwards to the river Serule on the road from Bamangwato to Tati; also from the Botletlie river to the Zambesi. Further northwards B. caama is replaced by B. lichtensteinii.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
24¾	10¼	9¾	South Africa ...	H. Atkinson.
24	10	9½	Do. ...	R. C. Dobson.
23¾	10	8⅜	Do. ...	Sir A. Smith, British Museum.
23½	11½	9⅛	Do. ...	Hon. Walter Rothschild.
23½	11½	10⅜	Do. ...	F. C. Selous.
23¼	10⅜	8⅛	Do. ...	The late J. S. Jameson.
23	11¼	6	Do. ...	F. C. Selous.
22½	10¾	10⅛	Do. ...	Sir Edmund G. Loder, Bart.
22⅜	10¾	6⅛	Do. ...	H. Atkinson.
22⅜	10⅜	9⅝	Do. ...	A. Beit.
22	10⅝	8⅛	Do. ...	Sir Victor Brooke's Collection.
22	11	8	Do. ...	Major Severas.
21¾	11¼	7	Do. ...	W. C. Oswell.
21¾	10	8¼	Do. ...	A. Beit.

HARTEBEESTE (Bubalis caama)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
21½	11	5½	South Africa ...	C. Ansell.
21½	10⅝	7¾	Do. ...	A. Beit.
21⅛	10⅞	6½	Do. ...	F. C. Selous.
20½	10	8	Do. ...	Rowland Ward's Collection.
20¼	11¼	5⅞	Do. ...	R. C. Dobson.
20	11	4⅞	Africa	Sir Edmund G. Loder, Bart.
♀ 19¾	7½	9	South Africa ...	The late J. S. Jameson.
19½	8¼	8	Do. ...	F. C. Selous.
19½	7½	8½	Africa	J. A. Nicoll.
18¾	8⅜	7¾	South Africa ...	H.R.H. Duke of Edinburgh.
18¾	8⅞	9½	Do. ...	J. Carr-Saunders.
17⅛	8¾	5⅞	Do. ...	H.R.H. Duke of Edinburgh.
16⅛	8⅞	⅜	Do. ...	British Museum.
10⅜	7¼	3	Africa	Earl of Derby, British Museum.



JACKSON'S HARTEBEESTE (Bubalis jacksoni).

Habitat—Central Africa: Country between Lake Victoria Nyanza and Lake Naivashœ.

THIS is a new species of Hartebeeste recently shot by Mr. F. J. Jackson in British East African Territory, who in his letter to me, dated October 1890, says: "I do not think it is likely to extend further south, but of course it may extend to the Cape for what we know; if it is A. caama it may do so, but I am inclined to doubt its being the same as the S. African animal. I seem to have an idea that the one at the British Museum is very much darker, and the horns different, but this is only from memory, and I cannot be sure. Up north all along the top of the Elgeyo Escarpment (continuation of Mau) into Turquel, to the north and north-east of Mount Elgon, it is common, and takes the place of A. cokei. Round Baringo it is fairly plentiful, but some marches south of Njemis the A. cokei takes its place."

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
20⅞	11¾	9⅝	East Africa ...	F. J. Jackson.
23½	12	9	... ...	E. Gedge.

TORA ANTELOPE (Bubalis tora).

Habitat—North Africa. Numerous in Soudan and Abyssinia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
19¾	9	16⅛	Abyssinia... ...	British Museum.
19¼	9	13¾	Do.	Sir Victor Brooke's Collection.
18½	8¾	15¼	Soudan	Col. Ralph Vivian.
18⅛	10	15½	Do.	Do.
17½	9¾	18	Bogos Land, Abyssinia.	British Museum.
16¾	7⅛	14½	Do.	Do.
15⅝	7⅞	17¾	Do.	Do.
13⅞	6¾	14	Upper Nubia ...	Sir Edmund G. Loder, Bart.
12⅜	7	6⅞	Abyssinia... ...	British Museum.
11	6⅛	15⅛	Bogos Land, Abyssinia.	Do.

SWAYNE'S HARTEBEESTE (Bubalis swaynei).

Habitat—N. E. Africa: Somali Land.

CLOSELY allied to B. cokei and B. tora, but can readily be distinguished from either by its dark markings on the face.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
18⅜	8¾	18	Somali... ...	Capt. H. G. C. Swayne.
17½	8⅛	19½	Do.	T. W. H. Clarke.
16½	9¾	12¾	Do.	Hon. Walter Rothschild.
16⅜	9	17⅞	Do.	W. D. James.
15¼	7¼	10⅝	Do.	E. Lort-Phillips.

COKE'S HARTEBEESTE (Bubalis cokei).

Habitat—East Africa (Masai Land and adjoining Territory).

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round bend.	Straight.				
19	...	9¾	16	East Africa ...	Sir Robert Harvey, Bart.
18⅝	...	8⅞	16¼	Do. ...	F. J. Jackson.
18¼	...	9½	13⅛	Do. ...	H. C. V. Hunter.
18	...	9¼	16¾	Do. ...	Sir Robert Harvey, Bart.
17⅝	...	8¾	17⅛	Do. ...	F. J. Jackson.
17⅜	...	9½	11	Do. ...	J. Carr-Saunders.
17⅛	...	9¼	13½	Do. ...	H. C. V. Hunter.
16⅜	...	9⅛	13⅝	Do. ...	Do.
16⅜	...	8	12⅜	Do. ...	British Museum.

COKE'S HARTEBEESTE (Bubalis cokei)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round bend.	Straight.				
16¼	...	9	17¼	East Africa ...	Sir Victor Brooke's Collection.
16⅛	...	8⅝	13¼	Kilima'njaro ...	Sir John Kirk, M.D., K.C.B.
16	12	...	12	East Africa ...	E. Gedge.
15⅞	...	7½	12⅜	Do. ...	Sir Robert Harvey, Bart.
15¾	...	8¾	10⅛	Taita	J. Wray, British Museum.
15⅜	...	7⅜	11⅛	East Africa ...	Sir Robert Harvey, Bart.
...	9	5¾	11	Do. ...	W. Astor Chanler.
14⅛	...	9⅛	12¼	Do. ...	Sir Robert Harvey, Bart.
14	...	10	11⅞	Do. ...	Hon. Walter Rothschild.
13½	...	9⅛	12½	Do. ...	Roland Ward's Collection.
11½	...	...	17½	Do. ...	Sir John Willoughby, Bart., "East Africa and its Big Game."

WEST AFRICAN HARTEBEESTE (Bubalis major).

Habitat—West Africa.

Length.	Circumference.	Tip to Tip.	Widest outside.	Habitat.	Owner.
20⅜	10¼	7	...	Africa	British Museum.

LICHTENSTEIN'S HARTEBEESTE (Bubalis lichtensteinii).

Zambesi name—"Godoñko."

Habitat—South and East Africa.

Length.	Circumference.	Tip to Tip.	Widest outside.	Habitat.	Owner.
20	12⅛	8	...	Zanzibar ...	Sir John Kirk, M.D., K.C.B.
19½	11½	8⅛	...	Africa	Hon. Walter Rothschild.
19¼	10⅜	6⅝	...	Zanzibar ...	Sir John Kirk, M.D., K.C.B.
19	11½	4⅞	...	East Africa ...	British Museum.
18⅝	11⅜	3⅛	...	South Africa ...	F. C. Selous.
18½	10¼	5	...	Do. ...	F. C. Selous, British Museum.
18¼	12	8	12	East Africa ...	Gen. Mathews.
18¼	11¼	5⅛	...	Do. ...	F. J. Jackson.
18⅛	10¾	4⅝	...	Do. ...	Do.
16⅝	11⅛	6⅛	...	River Saba (Mashuna Land).	F. C. Selous, British Museum.
15½	10¾	5⅜	...	... ...	W. P. Rylands.
♀15	8⅞	4⅞	...	River Saba (Mashuna Land).	F. C. Selous, British Museum.
14⅝	7¾	3¾	...	East Africa ...	F. J. Jackson.
14½	8	5⅛	...	Do. ...	Do.
♀14½	7¾	2⅞	...	Do. ...	Rowland Ward's Collection.
♀14⅛	8½	5⅝	...	Transvaal ...	British Museum.
12⅞	7	3⅞	...	Africa	F. L. James.

SENEGAL HARTEBEESTE (Bubalis senegalensis).

Habitat—East and West Central Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
19¼	6⅝	3⅜	East Africa ...	H. C. V. Hunter.
19	6¾	10	Gambia... ...	Earl of Derby, British Museum.
19	7½	8	East Africa ...	Rowland Ward's Collection.
18¾	9⅛	11	Gambia... ...	Earl of Derby, British Museum.
18½	8⅜	5¼	East Africa ...	J. Carr-Saunders.
18⅛	6⅜	5⅞	Do. ...	Sir Robert Harvey, Bart.
18	8⅛	5⅜	Do. ...	F. J. Jackson.
17¾	8½	8	Do. ...	Do.

SENEGAL HARTEBEESTE (Bubalis senegalensis)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
17⅛	7¾	5	East Africa ...	H. C. V. Hunter.
17	8	7	Do. ...	Sir Robert Harvey, Bart.
16⅞	7	5½	Do. ...	F. J. Jackson.
16⅝	5¾	5⅜	Do. ...	Do.
16⅜	7⅝	6	Do. ...	H. C. V. Hunter.
16⅜	6⅛	5½	... ...	Sir John Kirk, M.D., K.C.B.
16¼	7⅝	8¼	East Africa ...	Sir Robert Harvey, Bart.
16¼	7½	4¼	Do. ...	Do.
15¾	5⅝	4⅛	Do. ...	F. J. Jackson.
15⅝	7⅝	5¾	Do. ..	Hon. Walter Rothschild.
15⅝	7¼	5¾	Do. ...	F. J. Jackson.
15½	8½	7	Do. ...	E. Gedge.
14¾	7½	6¼	Do. ...	Sir Robert Harvey, Bart.
14½	7¼	6	Do. ...	Do.
13⅜	8⅛	5½	Do. ...	Do.

BUBALIS KOBA.

Habitat—East and West Central Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
21⅜	9⅛	11¾	River Gambia ...	Dr. P. Rendall, British Museum.
♀ 20¼	6¾	6⅞	Bahr-el-gazal ...	Consul Petherick, British Museum.
♀ 16⅜	5⅞	5⅝	River Juba, South Somali.	Sir John Kirk, M.D., K.C.B., British Museum.
10⅛	6¾	7⅞	Bahr-el-gazal ...	Consul Petherick, British Museum.

TSESSEBE ANTELOPE or BASTARD HARTEBEESTE (Bubalis lunatus).

Habitat—South Africa. Open country in territory adjacent to Limpopo River.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
15⅝	7½	11¾	... ...	Sir Edmund G. Loder, Bart.
15¼	8⅛	12½	... ...	F. C. Selous.
15¼	8⅛	10½	South Africa ...	W. C. Oswell.
15¼	8	12¼	Do. ...	Sir A. Smith, British Museum.
15⅛	7⅛	12	... ...	Sir Victor Brooke's Collection.
14½	7⅞	11¼	... ...	F. C. Selous.
14½	7⅝	11	Mashuna Land ...	F. C. Selous, British Museum.
14½	7½	13⅝	Central Africa ...	British Museum.
14¼	7½	10¼	... ...	Hon. Walter Rothschild.
14¼	6⅜	11¼	... ...	W. C. Oswell.
14⅛	6⅛	9⅞	... ...	F. C. Selous.
14	7	9⅝	... ...	Durban Museum.
14	6¾	12⅞	South Africa ...	A. Beit.
13⅞	7½	13⅜	Do. ...	British Museum.
♀ 13⅞	6⅝	11½	Mashuna Land ...	F. C. Selous, British Museum.
13⅞	6¼	12⅜	South Africa ...	H. and C. Beddington.

TSESSEBE ANTELOPE or BASTARD HARTEBEESTE

(Bubalis lunatus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13¾	6½	10⅛	South Africa ...	Hon. Walter Rothschild.
13⅝	6⅜	13⅛	Do. ...	The late J. S. Jameson.
13½	7⅜	10⅞	Do. ...	A. Beit.
13½	6	9¼	... ...	J. A. Nicoll.
13¼	6⅛	13¼	South Africa ...	Sir A. Smith, British Museum.
13⅛	7⅜	12¼	Do. ...	H. and C. Beddington.
13	7⅛	13¼	Do. ...	The late J. S. Jameson.
12⅞	7½	12⅝	Do. ...	W. P. Rylands.
12¾	5¾	12	Do. ...	A. Beit.
12½	7½	12	Do. ...	Rowland Ward's Collection.
12	6	12⅞	Do. ...	H. and C. Beddington.

BLESSBOK (Bubalis albifrons).

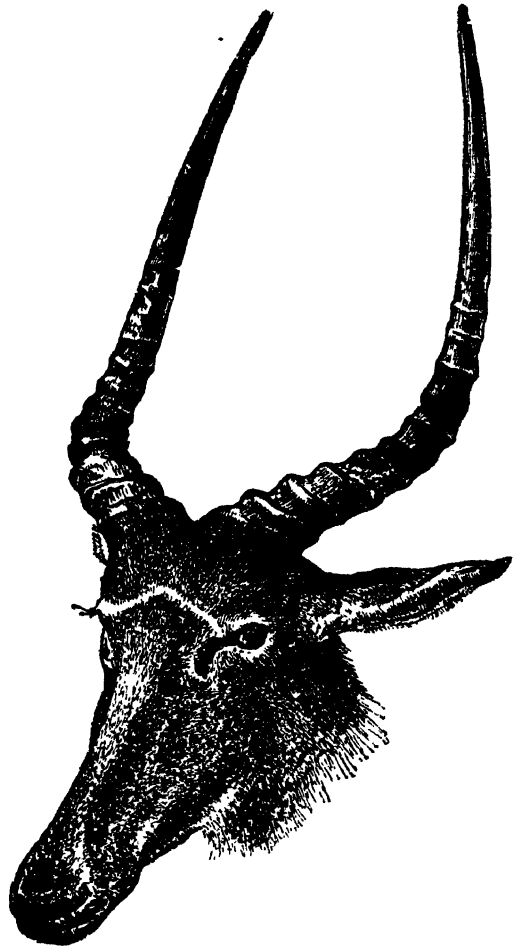
Habitat—South Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
18¼	5¾	12¼	South Africa ...	Sir Edmund G. Loder, Bart.
16⅛	6¼	8⅛	Do. ...	Do.
15¼	6⅛	6½	Do. ...	Maj.-Gen. Arthur Ellis, C.S.I.
15⅛	6½	7¾	Do. ...	Hon. Walter Rothschild.
14¼	6⅛	8¾	... ...	H.R.H. Duke of Edinburgh.
14	6⅜	7½	... ...	Sir Victor Brooke's Collection.
14	5⅛	7⅛	... ...	Rowland Ward's Collection.
13⅞	6⅛	7⅜	South Africa ...	British Museum.
13¾	5¾	6⅛	... ...	W. C. Oswell.
13½	5	5¾	... ...	F. C. Selous.
13⅜	5	9⅜	... ...	H.R.H. Duke of Edinburgh.
12¾	5⅜	4⅝	... ...	Maj.-Gen. Arthur Ellis, C.S.I.
12⅝	4¾	7	South Africa ...	British Museum.
12⅜	6	9¾	... ...	F. J. Horniman.

BONTEBOK (Bubalis pygargus).

Habitat—South Africa. The horns closely resemble *Blessbok*.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
16⅜	6¾	9⅛	... ...	British Museum.
16	6¼	6¾	... ...	Rowland Ward's Collection.
15¾	6	3¾	... ...	Do.
15⅜	6⅛	8⅛	Cape Colony ...	Sir Victor Brooke's Collection.
15⅜	6¼	8½	... ...	*British Museum.*
15	5¼	4½	... ...	Do.
15	6⅜	7⅝	Cape Colony ...	Capt. Freville-Cookson.
15	6⅛	6⅞	South Africa ...	British Museum.
14½	6¼	8¼	Do. ...	Hon. Walter Rothschild.
14½	6⅝	7¼	Do. ...	British Museum.
14½	4½	7¾	Do. ...	Do.
14	6⅜	8⅛	... ...	J. Carr-Saunders.
14	6¼	7½	Cape Colony ...	Sir Victor Brooke's Collection.
13¾	5	6½	South Africa ...	A. W. Davis.
12¾	5⅞	5⅞	Do. ...	British Museum.
12⅛	4⅜	6⅜	Do. ...	Do.



HUNTER'S ANTELOPE (Bubalis hunteri).

Habitat—North banks of the Tana River, East Africa.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round bend.	Straight.				
26¼	22	8⅛	12½	East Africa ...	Sir Robert Harvey, Bart.
24⅞	...	8⅛	15½	Do. ...	H. C. V. Hunter.
24⅝	21¼	8⅜	9¾	Do. ...	Sir Robert Harvey, Bart.

HUNTER'S ANTELOPE (Bubalis hunteri)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round bend.	Straight.				
24⅜	...	7⅞	13⅜	East Africa ...	H. C. V. Hunter.
24⅛	20¼	8⅛	11¾	Do. ...	Sir Robert Harvey, Bart.
24	20½	8	...	Do. ...	H. C. V. Hunter.
22⅞	...	7¼	7⅝	Tana River ...	Do. British Museum.
22	...	...	16	East Africa ...	Do.
21	...	5½	10¼	Tana River ...	Do. British Museum.
20½	18¼	5½	11⅜	East Africa ...	Sir Robert Harvey, Bart.
20⅛	...	5⅝	10⅝	Do. ...	H. C. V. Hunter.
20⅛	...	5⅝	8⅞	Do. ...	Hon. Walter Rothschild.
19⅝	17⅝	5⅜	11¾	Do. ...	Sir Robert Harvey, Bart.
19	17	5¾	10¼	Do. ...	H. C. V. Hunter.

BRINDLED GNU (Connochœtes taurina).

Habitat—South Central Africa.

The specimens shot in East Africa may be the sub-species figured on page 75.

Length.	Breadth of Palm.	Tip to Tip.	Widest Inside.	Habitat.	Owner.
26⅛	8	14¾	16½	... ...	Sir Edmund G. Loder, Bart.
23	11½ (circumference)	19½	31	South Africa ...	J. A. Nicoll.
23	9⅞	14⅞	...	... ...	H.R.H. Duke of Edinburgh.
22⅞	...	16½	25⅜	East Africa ...	F. J. Jackson.
22⅝	...	18¾	26¼	Do. ...	H. C. V. Hunter.
22¼	6	18⅛	26	South Africa ...	F. C. Selous.
22⅛	...	17¾	25⅝	East Africa ...	F. J. Jackson.
22	5¾	15⅜	23⅛	... ...	The late J. S. Jameson.
21⅝	13 (circumference)	23¾	...	East Africa ...	F. J. Jackson.
21⅝	5¼	17⅜	28½	South Africa ...	G. H. Banks.
20⅝	...	15⅛	24	East Africa ...	Sir Robert Harvey, Bart.
20½	12½ (circumference)	12½	25	... ...	Rowland Ward's Collection.
20¼	...	12¾	21¾	Mashunaland ...	F. C. Selous.
20	12 (circumference)	17	27 (outside)	East Africa ...	R. P. Carrol.
19⅞	...	12¾	20⅞	Do. ...	Sir Robert Harvey, Bart.
19¾	...	18	23⅜	Do. ...	Do.

BRINDLED GNU (Connochœtes taurina)—*continued.*

Length.	Breadth of Palm.	Tip to Tip.	Widest Inside.	Habitat.	Owner.
19¾	5	17	23¾	South Africa ...	R. C. Dobson.
19⅝	5⅜	12½	21¼	... ...	Hon. Walter Rothschild.
19½	5	15	22½	... ...	W. C. Oswell.
19½	...	20	...	East Africa ...	H. C. V. Hunter.
19½	14½ (circumference)	16¼	22	Do. ...	F. J. Jackson.
19½	...	13⅝	21¾	Do. ...	Sir Robert Harvey, Bart.
19⅜	...	15⅛	22	Do. ...	H. C. V. Hunter.
19¼	11⅛ (circumference)	17⅛	23⅝	South Africa ...	H. Atkinson.
19¼	5	15⅜	22⅛	Do. ...	H. and C. Beddington.
19⅛	5½	15½	22½	Do. ...	F. C. Selous.
19	5½	12⅜	21½	... ...	J. Carr Saunders.
19	5½	11½	13⅝	... ...	Sir Edmund G. Loder, Bart.
18¼	4⅜	12⅞	19⅞	... ...	The late J. S. Jameson.
18	...	16	...	South Africa ...	British Museum.
17¼	...	11⅛	20¼	East Africa ...	F. J. Jackson.
17	4¾	17½	21⅝	... ...	Sir Victor Brooke's Collection.
17	...	15	24 (outside)	East Africa ...	W. Astor Chanler.
...	...	16	28 (outside)	... ...	Sir J. Willoughby, Bart., "East Africa and its Big Game."
16	7	12¼	22	South Africa ...	A. W. Davis.
15⅞	3⅝	10⅜	18⅜	Do. ...	A. Beit.
15½	...	3¾	10⅛	Do. ...	British Museum.
15	...	13⅛	18½	East Africa ...	Sir Robert Harvey, Bart.
15	8⅞	12¼	17⅞	South Africa ...	H. and C. Beddington.
14⅞	4	14¾	18⅞	Do. ...	A. Beit.
14½	...	11⅞	17½	East Africa ...	Sir Robert Harvey, Bart.
13¾	8¾	9⅞	16¼	Zanzibar ...	Sir John Kirk, M.D., K.C.B.
12⅝	...	11⅝	...	South Africa ...	British Museum.

WHITE-TAILED GNU (Connochœtes gnu).

Habitat—South Africa.

Length.	Breadth of Palm.	Tip to Tip.	Widest Inside.	Habitat.	Owner.
22 3/8	8 1/2	15 1/4	...	... ...	F. C. Selous.
22	9	17 1/8	...	... ...	Hon. Walter Rothschild.
21 3/4	10 5/8	18 5/8	...	South Africa ...	British Museum.
21 3/8	8	14 3/8	...	... ...	F. C. Selous.
20 3/8	...	15 1/2	23 1/8	... ...	Bethnal Green Museum.
16 3/4	10 1/2	12 5/8	17 3/4	South Africa ...	British Museum.
15 7/8	3 3/4	13 1/8	19 3/8	... ...	Sir Edmund G. Loder, Bart.
*14 5/8	7 3/8 (circumference)	8 1/2	16 5/8	Ugarano ...	Capt. Speke, British Museum.

Gorgon fasciatus.

JACKSON'S WILDEBEESTE (Connochœtes taurinus albojubatus).

Habitat—East Africa, Uganda.

Closely allied to the Brindled Wildebeeste, excepting that it has a white mane under the throat instead of black.

Length.	Breadth.	Tip to Tip.	Widest Inside.	Habitat.	
20⅛	5⅛	16⅜	22⅝	East Africa ...	F. J. Jackson.
19⅛	5¾	16¼	21⅞	Do. ...	Do.

DUIKER ANTELOPE (Cephalophus grimini).

Habitat—South and East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
5⅜	2⅛	2⅞	South Africa ...	F. C. Selous.
5	2¼	2½	Do. ...	Do.
4⅞	2½	2¼	Do. ...	Do.
4¾	2¼	3	Do. ...	A. Beit.
4½	...	2⅞	Algoa Bay ...	F. C. Selous, British Museum.
4½	2¼	1¾	South Africa ...	G. H. Banks.
4¼	1⅞	2¾	... ...	Sir Robert Harvey, Bart.
4⅛	2⅛	1⅝	... ...	J. Carr-Saunders.
4⅛	1⅞	2⅝	Natal	J. Wahlberg, British Museum.
4⅛	2	2	Transvaal ...	F. C. Selous, British Museum.
4	1⅞	1½	South Africa ...	H. and C. Beddington.
4	1⅞	1½	Do. ...	Do.
3⅞	2⅛	2	... ...	Sir Robert Harvey, Bart.
3⅞	1¾	1¾	East Africa ...	F. J. Jackson.
3¾	2	2⅛	South Africa ..	H. and C. Beddington.
3¾	...	1¾	... ...	The late J. S. Jameson.
3¼	1¾	2⅛	East Africa ...	F. J. Jackson.
3¼	...	1¼	South Africa ...	The late J. S. Jameson.
*3½	1⅞	1¾	Abyssinia ...	Sir Victor Brooke's Collection.
2¾	1⅞	1¼	Do. ...	British Museum.

* Cephalophus Madoqua.

NATAL BUSHBUCK (Cephalophus natalensis).

[Dr. J. E. Gray, P.Z.S., p. 589.]

Hair rigid, adpressed, of neck and cheeks short, of forehead long, bright red-bay; beneath pale yellowish; forehead red.

There are four specimens in the British Museum, two males and two females.

Habitat—Port Natal.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$3\frac{1}{8}$	...	$2\frac{1}{8}$	Natal	Dr. A. Kraus, British Museum.
$2\frac{7}{8}$	3	$2\frac{1}{4}$	Zanzibar	Dr. Kirk, British Museum.

WHITE-BACKED BUSHBUCK (Cephalophus sylvicultor).

Habitat—Fantee.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$4\frac{5}{8}$	...	$2\frac{1}{4}$	Fantee	British Museum.
$6\frac{3}{4}$	...	$4\frac{1}{2}$	Do.	Do.
$6\frac{5}{8}$	$3\frac{5}{8}$	$4\frac{3}{8}$	Do.	Do.

BANDED BUSHBUCK (Cephalophus doriæ).

Habitat—Liberia.

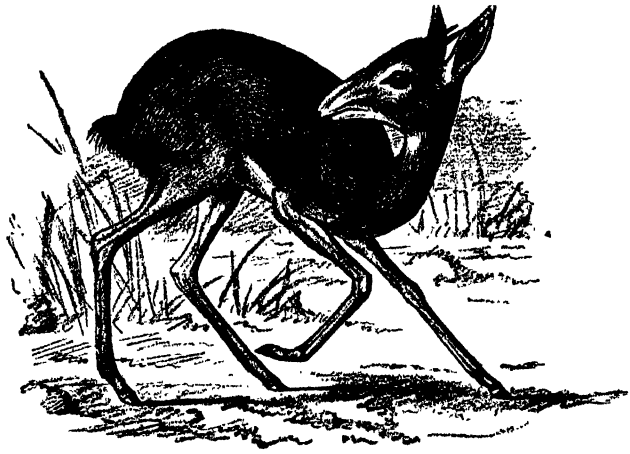
Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$1\frac{7}{8}$	...	1	Liberia	Dr. J. Buttikofer, British Museum.

FOUR-HORNED ANTELOPE or CHOUSINGHA
(Tetraceros quadricornis).

Horns in male only.

Habitat—India.

Length.		Circumference.		Tip to Tip.		Habitat.	Owner.
Rear Horn.	Fore Horn.	Rear Horn.	Fore Horn.	Rear Horn.	Fore Horn.		
4 3/8	2 1/2	2 1/4	2 3/8	1 5/8	2 7/8	India ...	Sir Edmund G. Loder, Bart.
4	2 1/2	1 7/8	1 7/8	3	1 1/8	Indore ...	Col. John Evans, British Museum.
3 5/8	1 3/4	1 7/8	2	1 1/8	2 1/2	India ...	Sir Robert Harvey, Bart.
3 1/2	2	1 5/8	1 5/8	1 1/4	2 1/2	Do. ...	H.R.H. Duke of Edinburgh.
3 1/8	1/2	2 1/8	1 1/2	2 5/8	1 1/8	Nepal ...	British Museum.
2 3/4	1	1 7/8	1 1/2	1 7/8	...	India ...	Do.
2	1/2	3	...	3	1 1/8	Do. ...	Do.



KIRK'S ANTELOPE (Neotragus kirki).

Habitat—East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
3	...	1½	East Africa ...	F. J. Jackson.
2¾	...	1⅝	Do. ...	British Museum.
2⅝	...	1½	Do. ...	Sir Robert Harvey, Bart.
2⅝	1½	1⅝	Kilima'njaro ...	H. C. V. Hunter, British Museum.
2⅝	...	1¾	East Africa ...	Sir Robert Harvey, Bart.
2½	...	1⅞	Do. ...	F. J. Jackson.
2½	1½	...	North-east Africa	Col. Ralph Vivian.
2½	...	1⅝	East Africa ...	Hon. Walter Rothschild.
2½	...	1⅜	Do. ...	Rowland Ward's Collection.
2⅜	...	1⅜	Island of Manda...	Sir John Kirk, M.D., K.C.B.
2⅜	...	1½	Somali Land ...	Do. British Museum.
2⅜	...	1½	East Africa ...	Sir Robert Harvey, Bart.
2⅜	1⅝	1⅜	Do. ...	Sir John Kirk, British Museum.
2¼	...	1⅞	Do. ...	Sir Robert Harvey, Bart.
2	...	...	Do. ...	Sir John Willoughby, Bart., "Ea Africa and its Big Game."

SALT'S ANTELOPE (Neotragus Saltianis).

Weight—Weight about 6 lbs.

Habitat—Somali Land, North-east Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
2¾	1	1	Somali Land ...	T. W. H. Clarke.
2⅝	...	1⅜	Do.	Sir Victor Brooke's Collection.
2½	1	1⅜	Do.	Capt. H. G. C. Swayne.
2⅜	1⅜	1⅝	Abyssinia... ...	Sir Victor Brooke's Collection.
2⅜	...	1⅝	North-east Africa	British Museum.
2⅜	1½	...	Somali Land ...	C. Liddell.

ZANZIBAR ANTELOPE (Nanotragus moschatus).

Habitat—East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
3¼	1½	2	Coral Islands, Zanzibar.	Sir John Kirk, M.D., K.C.B.
3¼	1⅜	1½	Zanzibar	Capt. Speke, British Museum.
3¼	1¼	1½	Do.	Dr. Kirk, British Museum.
2⅝	1¼	1¾	Do.	Sir Victor Brooke's Collection.

ORIBI ANTELOPE (Nanotragus scoparia).

Habitat—South Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$4\frac{5}{8}$	$1\frac{3}{4}$	$3\frac{1}{2}$	South Africa ...	F. C. Selous.
$4\frac{3}{4}$	2	$2\frac{1}{2}$	Cape of Good Hope	British Museum.
$4\frac{3}{4}$	$1\frac{3}{4}$	2	South Africa ...	F. C. Selous.
$4\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{7}{8}$	Do. ...	Do.
$4\frac{1}{8}$	...	$2\frac{7}{8}$	Do. ...	Rowland Ward's Collection.

WEST AFRICAN ORIBI (Nanotragus nigricaudatus).

Habitat—River Gambia.

(For description see page 82.)

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
3	$1\frac{5}{8}$	$2\frac{3}{4}$	River Gambia ...	Charles B. Mosse, British Museum.

NANOTRAGUS NIGRICAUDATUS.

[Sir VICTOR BROOKE, P.Z.S. 1872, p. 875.]

GRIZZLY fawn; forehead rufous; tail black, of moderate length; temporal gland distinct, black; knee-brushes large; false hoofs present but small; ears moderate; horns slender, moderate in length, and slightly bent forward.

Height at shoulder, 20 in.; length of ears, 4½ in.; length of horns, 3 in. A narrow mark about one inch in length on each side of the naked muzzle; a line passing round the eye and suborbital pit, but not meeting in front of the gland, lower lip, chin, spot on throat, belly, inside of limbs nearly as far down as the carpal and tarsal joints, and rump white. Nose and ears externally dusky brown; forehead and occiput rufous; temporal gland large, round, and covered with very short bluish-black hair, that covering the region between the suborbital pit and the eye being of similar character and colour; neck, back, flanks, and sides of a peculiar grizzly fawn colour. This peculiarity is obtained by the base of each hair being almost white, the tip rufous, the intervening part of a deep bluish grey.

ABYSSINIAN ORIBI (Nanotragus montanus).

Habitat—Abyssinia.

[Sir VICTOR BROOKE, P.Z.S. 1872, p. 875.]

SANDY fawn; tail of the same colour as the back, and very short, almost rudimentary; temporal gland and knee-brushes distinct; false hoofs small; ears moderate; horns short and subconical.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
4⅜	1¾	2½	Dembelas, Abyssinia.	British Museum.

STEINBUCK (Nanotragus tragulus).

Habitat—South and East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$5\frac{3}{8}$	2	$1\frac{3}{4}$	East Africa ...	E. Gedge.
5	...	$2\frac{1}{2}$	Do. ...	Sir John Willoughby, Bart., Africa and its Big Game."
$4\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{5}{8}$	South Africa ..	H. and C. Beddington.
$4\frac{1}{2}$	$1\frac{5}{8}$	$2\frac{5}{8}$	Do. ...	F. C. Selous.
$4\frac{3}{8}$	$1\frac{5}{8}$	$2\frac{3}{8}$	East Africa ...	Sir Robert Harvey, Bart.
$4\frac{3}{8}$	$1\frac{5}{8}$	$2\frac{1}{4}$	South Africa ...	F. C. Selous.
$4\frac{1}{4}$	2	$2\frac{5}{8}$	Do. ...	The late J. S. Jameson.
$4\frac{1}{8}$	$1\frac{7}{8}$	$2\frac{1}{4}$	Soudan	Col. Ralph Vivian.
$4\frac{1}{8}$	$1\frac{5}{8}$	$2\frac{3}{8}$	Kaokoland, West Africa.	Capt. F. Cookson, 1890.
$4\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{3}{4}$	South Africa ...	F. C. Selous.

STEINBUCK (Nanotragus tragulus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
4	1¾	2⅜	Soudan	Col. Ralph Vivian.
4	1⅜	2¼	East Africa ...	Sir Robert Harvey, Bart.
*3⅞	1⅝	2⅜	South Africa ...	British Museum.
3¾	1¾	2¼	East Africa ...	Sir Robert Harvey, Bart.
3¾	1⅝	1⅞	... ...	J. Carr Saunders.
3¾	1½	2¼	East Africa ...	F. J. Jackson.
*3⅜	1½	2½	Transvaal ...	British Museum.
*3⅜	...	2¾	Near Kilima'njaro, East Africa.	H. C. V. Hunter, British Museum.

* Nanotragus campestris.

KLIPSPRINGER (Nanotragus oreotragus).

Somali name—"Alakud."

Habitat—Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
4⅜	2	3¼	South Africa ...	F. C. Selous.
4¼	2⅛	2¼	Do. ...	Do.
4¼	2	3¼	East Africa ...	E. Gedge.
4⅛	2⅛	2⅜	South Africa ...	F. C. Selous.
4	2½	1⅞	Do. ...	H. and C. Beddington.

KLIPSPRINGER (Nanotragus oreotragus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat	Owner.
*4	2	3	South Africa ...	British Museum.
4	1⅞	2	Do.	The late J. S. Jameson.
3¾	2	2	Somali, North-East Africa.	T. W. H. Clarke.
*3¾	...	1⅞	Abyssinia ...	British Museum.
3¼	1¾	1⅝	Somali	E. Lort-Phillips.
3⅛	1¾	2½	South Africa ...	A. Beit.
*3⅛	1¾	2⅜	Do. ...	British Museum.
3	1⅞	3¾	Do. ...	Hon. Walter Rothschild.

* Oreotragus saltator.

REHBOK (Pelea capreola).

Habitat—South Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
8⅝	2½	2⅝	South Africa ...	Dr. Burchell, British Museum.
7⅞	2⅜	3½	Do. ...	R. G. Breakes, British Museum.
7⅜	2¼	3¼	Do. ...	Rowland Ward's Collection.
7½	2⅜	3	Do. ...	H. Atkinson.
6⅞	2½	3⅛	Do. ...	A. Beit.
6¼	2⅜	2¾	Do. ...	British Museum.
5½	2⅜	1¾	Do. ...	Hon. Walter Rothschild.

WATERBUCK (Cobus ellipsiprymnus).

Bechuana name—"Tumoha."

Lower Zambesi name—"Myakobswe."

Habitat—South and East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
33½	9¼	21½	... ...	Hon. Walter Rothschild.
33	9⅜	11½	Mashuna Land	F. C. Selous, British Museum.
32¾	9¾	21⅜	South Africa ...	Sir Victor Brooke's Collection.
31⅜	8½	21⅞	Do. ...	British Museum.
31¼	9⅝	19¼	... ...	Sir Edmund G. Loder, Bart.
31	...	(owner's measurements)	Mashuna Land	F. C. Selous.
30½	8⅞	16⅛	Algoa Bay ...	C. Wemys, British Museum.
30⅛	8½	13⅞	... ...	F. C. Selous.

WATERBUCK (Cobus ellipsiprymnus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
30	9	22½	... ...	W. Ogilby (P.Z.S. 1883, pt. 1, p. 47).
30	8⅞	16½	South Africa ...	British Museum.
29⅞	9⅛	12⅞	... ...	Hon. Charles Ellis.
29¾	9½	21⅞	... ...	F. C. Selous.
29¼	8	24½	... ...	Hon. Charles Ellis.
29	9¼ (malformed)	5½	South Africa ...	A. W. Davis.
28⅞	9	21	... ...	Rowland Ward's Collection.
28¾	8	15¼	South Africa ...	G. H. Banks.
28⅝	8	16¾	Do. ...	Do.
28¾	9⅛	21⅜	... ...	H.R.H. Duke of Edinburgh.
28⅜	8	19¼	... ...	Hon. Charles Ellis.
28	(owner's measurements)	18	East Africa ...	Sir John Willoughby, Bart.
28	9¼	16¾	... ...	Hon. Walter Rothschild.
27¾	9¼	14¾	... ...	The late J. S. Jameson.
27⅝	8	9⅞	... ...	Maj.-Gen. Arthur Ellis, C.S.I.
27½	8⅞	25½	... ...	Hon. Charles Ellis.
27½	8¾	14	South Africa ...	Durban Museum.
27¼	9½	16¾	... ...	Maj.-Gen. Arthur Ellis, C.S.I.
27	9	24	East Africa ...	E. Gedge.
26¾	9¼	21	Limpopo ...	W. C. Oswell.
26½	8⅝	15⅞	South Africa ...	A. M. Sagar Musgrave.
26½	7½	13⅞	Do. ...	Bethnal Green Museum.
26⅜	9⅝	11½	Do. ...	The late J. S. Jameson.
26⅜	8½	18⅛	Do. ...	J. Carr-Saunders.
26	9⅜	12¾	Limpopo ...	W. C. Oswell.
25⅞	8⅜	17½	Soudan ...	Col. Ralph Vivian.
25⅝	8¼	11	... ...	Capt. Speke, British Museum.

WATERBUCK (Cobus ellipsiprymnus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
25⅜	9⅜	16	... ...	The late J. S. Jameson.
25⅜	8½	22	South Africa ...	W. P. Rylands.
25¼	8¾	13⅞	East Africa ...	Sir Robert Harvey, Bart.
25⅛	8	13⅜	Do. ...	H. C. V. Hunter.
25	9¼	15½	Soudan ...	Col. Ralph Vivian.
25	8½	13½	South Africa ...	J. A. Nicoll.
25	7¾	16¼	East Africa ...	Sir Robert Harvey, Bart.
24⅞	8½	16½	South Africa ...	W. P. Rylands.
24⅞	8⅛	13	East Africa ...	Sir Robert Harvey, Bart.
24⅞	7¾	9½	Do. ...	Do.
24¼	7½	9¾	... ...	W. D. James.
24⅛	8	17⅞	East Africa ...	Sir Robert Harvey, Bart.
24⅛	7¾	16⅛	South Africa ...	British Museum.
23⅞	8⅜	12⅝	East Africa ...	H. C. V. Hunter.
23⅞	8	15⅜	Do. ...	Sir Robert Harvey, Bart.
23	9	9	Do. ...	E. Gedge.
22⅜	8½	13⅛	Do. ...	Sir Robert Harvey, Bart.
21¾	7⅜	11⅛	Do. ...	Do.
21⅜	7⅝	13¾	Cape Delgado	Sir John Kirk, M.D., K.C.B.
21⅜	7	11¼	... ...	W. D. James.
21	7¾	13	East Africa ...	W. Astor Chandler.
20	7⅛	12⅛	Cape Delgado	Sir John Kirk, M.D., K.C.B.

SINGSING ANTELOPE (Cobus defassus).

Habitat—Africa.

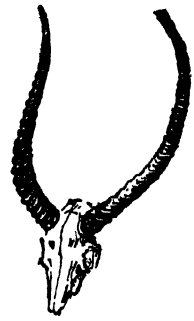
[Dr. SCLATER on Capt. Speke's trophies, P.Z.S. 1864, p. 102.]

THE general aspect of the head resembles Kobus ellipsiprymnus, but the face is blacker, and the top of the head between the horns dark rufous. "It does not possess the lunate mark on the rump of the Waterbuck, and does not stand so high, but is rather more stoutly built." (Note by Capt. Speke on above.)

[Dr. JAMES MURIE, P.Z.S. 1867, p. 5.]

	Baron Hernier.	British Museum.	Capt. Speke's specimen.
Height at shoulder ...	45¾	45½	...
Length of body, rump, to front of shoulder ...	52	...	...
Length of head from between the horns to tip of muzzle	13½	13	...
Length of tail	16	11	...
Length of ears	...	20	24

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
27⅜	8⅛	13½	Africa	British Museum.
27¼	7½	18¼	Abyssinia ...	Do.
26⅞	7¾	15⅛	Uganda	Capt. Speke, British Museum.
26⅜	8½	21⅜	River Atbara, Abyssinia.	British Museum.
25⅛	8⅝	13⅜	Africa	Hon. Walter Rothschild.
24	7¾	...	Do.	Capt. Speke (P.Z.S. 1867, p. 5).
23½	7½	...	Do.	Baron Hernier (P.Z.S. 1867, p. 5).
23⅞	7¾	15¾	Do.	British Museum.
22⅞	8½	10⅜	Do.	Sir Edmund G. Loder, Bart.



LECHWE ANTELOPE (Cobus leche).

Habitat—South Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
27½	10¾	19⅛	Chobe River ...	F. C. Selous, British Museum.
27	...	...	Do. ...	Do. 1879, "A Hunter's Wanderings."
26¼	8⅜	21	South Africa ...	A. Beit.
26⅛	8	15 (about)	Do. ...	F. C. Selous.
25	...	...	Lukanga	Do. 1878, "A Hunter's Wanderings."
24⅜	7⅝	13⅝	South Africa ...	The late J. S. Jameson.
24	8⅛	14¼	Do. ...	F. C. Selous.
24	8	15½	Zambesi	W. C. Oswell.
23¾	7½	14⅛	South Africa ...	F. C. Selous.
23	9	9	East Africa ...	E. Gedge.
22⅞	7¼	6⅝	South Africa ...	A. Beit.
22⅝	7⅜	11¼	Do. ...	The late J. S. Jameson.
22⅝	6⅝	11¾	Chobe River ...	F. C. Selous, British Museum.
22	7¼	10¾	South Africa ...	J. Carr-Saunders.
21½	7	10	Africa	J. A. Nicoll.
21¼	6½	13⅞	Do.	Capt. F. Vardon, British Museum.

WHITE-EARED WATERBUCK (Cobus leucotis).

Habitat—East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
19⅞	6⅜	7¼	Bahr el Gazal ...	British Museum.
19⅛	5⅞	9½	Do. ...	Consul J. Petherick, British Museum.
19	6	8¼	Do. ...	Do.
17¼	6	7¼	Africa	Sir Victor Brooke's Collection.

COBUS KOB.

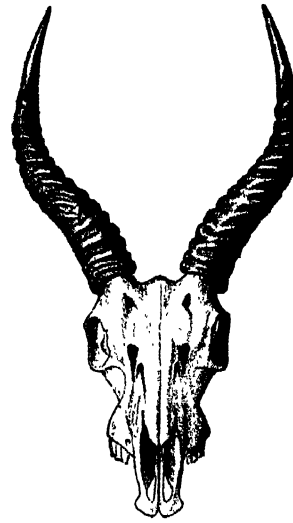
Habitat—Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
18	7¼	11½	East Africa ...	E. Gedge.
17¾	7¾	11½	Uganda ...	Do.
17⅜	6½	7¾	Do. ...	F. J. Jackson.
17¼	7½	5½	Do. ...	Do. 1890.
17⅛	7	5	Masai Land ...	Do. British Museum.
17	6¾	9½	East Africa ...	E. Gedge.
9½	5	3	Gambia	Earl of Derby, British Museum.
8	4⅝	4⅝	Do.	Do.

MRS. GRAY'S WATERBUCK (Cobus maiæ).

Habitat—East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
26⅞	6⅞	13¾	Arwan, Bahr el Gazal.	Consul J. Petherick, British Museum.



POOKOO ANTELOPE (Cobus vardoni).

Native name—" Poku."

Habitat—South Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
19⅛	6¾	8½	South Africa ...	J. Carr-Saunders.
16¼	6⅝	7½	Do. ...	British Museum.
16	6¾	6⅜	Chobe River ...	F. C. Selous.
15⅛	6	10	South Africa ...	J. Carr-Saunders.
14½	6⅜	6⅝	Do. ...	F. C. Selous.
14⅛	6⅝	5⅛	Chobe River ...	Do. British Museum.
13⅞	5⅞	7¼	South Africa ...	Rowland Ward's Collection.

REEDBUCK (Cervicapra arundineum).
(Cervicapra bohor).

Sena and Tete name—"N'sengo."

Habitat—Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
15⅞	6¼	14¼	... ...	British Museum.
15¾	6⅛	(one point broken)	... ...	The late J. S. Jameson.
15⅛	6⅝	11¼	... ...	F. C. Selous.
15	...	...	... ...	Do. "A Hunter's Wanderings."
15	6½	9¾	South Africa ...	Sir John Willoughby, Bart.
14⅝	7⅜	9⅛	... ...	Hon. Walter Rothschild.
14½	6⅜	7⅝	... ...	Sir Edmund G. Loder, Bart.
14½	6¼	7	... ...	F. C. Selous.
14½	5⅝	8¼	... ...	Do.
14½	5⅜	14⅜	... ...	W. C. Oswell.
14	...	...	River Tati, South Africa.	F. C. Selous, "A Hunter's Wanderings."
13⅞	5¾	11½	South Africa ...	A. Beit.
*13¾	5⅞	8⅛	... ...	British Museum.
13⅝	5½	9⅜	... ...	The late J. S. Jameson.
13½	6	9¼	... ...	Hon. Walter Rothschild.
13½	...	12¼	... ...	Dr. Knight-Bruce, Bishop of Bloomfontein.
13½	5⅞	6⅛	... ...	The late J. S. Jameson.
13⅛	6⅛	10⅝	... ...	Do.

* Cervicapra bohor.

REEDBUCK—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13⅛	5⅜	9⅝	... ...	G. H. Banks.
13	7⅜	11⅜	... ...	F. C. Selous.
13	6½	11½	... ...	Col. G. W. Thompson.
12⅞	6¾	12⅜	... ...	F. C. Selous.
12⅞	5⅜	11	South Africa ...	A. Beit.
12¾	6⅛	8⅜	... ...	A. M. Sagar-Musgrave.
*12½	5⅝	5⅜	... ...	Sir John Kirk, M.D., K.C.B., British Museum.
12½	5½	11¾	South Africa ...	A. Beit.
*12	5½	11⅞	Do. ...	British Museum.
11⅞	5⅝	10⅜	... ...	J. Carr-Saunders.
11¾	5½	8½	South Africa ...	A. C. Fountaine.
11	6	14	Do. ...	Lieut. C. F. Gisborne.
11	6	9¼	Do. ...	J. A. Nicoll.
*10⅝	4½	5½	East Africa ...	Sir Robert Harvey, Bart.
*10½	5½	8⅜	South Africa ...	British Museum.
*9¼	5¼	4½	Do. ...	Rowland Ward's Collection.
*9⅛	5⅜	8½	Do. ...	Dr. Burchell, British Museum.
*9⅛	4⅞	4⅝	East Africa ...	H. C. V. Hunter.
*9	5¼	3⅛	Zanzibar	Sir John Kirk, M.D., K.C.B.
*8¾	5	3⅞	East Africa ...	Sir Robert Harvey, Bart.
*8¾	4⅞	3¾	Do. ...	H. C. V. Hunter.
8½	5½	4	South Africa ...	The late J. S. Jameson.
*8¼	5¾	5	East Africa ...	R. P. Carroll.
*8⅛	4¾	2½	Masai Land ...	H. C. V. Hunter, British Museum.
*7¾	4⅞	2¾	East Africa ...	F. J. Jackson.
*5¾	3⅞	3½	Do. ...	Do.

* Cervicapra bohor.

BLACKBUCK or INDIAN ANTELOPE (Antilope cervicapra).

Habitat—India. *Average weight*—85 lbs.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight.	Round Curve.				
28¼	40½	5	17¾	India ...	A. O. Hume (Private Collection).
27	...	...	(owner's measurement)	Punjaub ...	Capt. H. V. Brooke, late 92nd Highlanders.
27	34	5	19½	Do. ...	Sir Victor Brooke's Collection.
26⅜	33	5	17⅞	Do. ...	A. O. Hume (Private Collection).
25⅝	35⅛	4¾	20¾	Do. ...	Do.
25½	...	...	15	Do. ...	Col. Martin.
25⅜	35¼	5½	14½	Do. ...	Hume Collection, British Museum.
25⅛	34¾	5⅛	21¾	Gadaruara District, Cen. Prov.	Sir John H. Morris, K.C.S.I.
25	35½	4⅞	19	India ...	Hume Collection, British Museum.
24¼	...	5	18½	Do. ...	Marquis of Ailsa.
24	33	5½	14¾	Do. ...	Rowland Ward's Collection.
24	...	...	20	Do. ...	Lord Herbrand Russell.
24	37	5	18⅞	Aligur ...	St. George Littledale, 1877.
23¾	33⅞	5⅜	21	India ...	H.R.H. Duke of Edinburgh.

BLACKBUCK or INDIAN ANTELOPE (Antilope cervicapra)-*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight.	Round Curve.				
23⅝	34	5⅛	20⅞	India ...	H.R.H. Duke of Edinburgh.
23½	29¼	5⅛	16¾	Do. ...	Lieut. F. E. Shafto-Adair.
23½	...	...	...	Do. ...	Sir S. Baker, Bart., "Wild Beasts and their Ways."
23¼	33⅜	5½	18½	Do. ...	Hume Collection, British Museum.
23¼	34¼	4⅞	19⅜	Do. ...	Do.
23¼	29⅞	4⅝	15½	Do. ...	Do.
23	30⅛	5⅛	13⅜	North India	Sir Victor Brooke's Collection, 1869.
22¾	32⅝	5	15⅞	India ...	Martyn Kennard.
22⅝	30⅛	5¾	11⅛	Do. ...	Mrs. Stirling, British Museum.
*22⅝	32¾	5¾	...	Do. ...	Hon. Walter Rothschild.
22½	...	5¼	18½	Do. ...	Lieut. F. E. S. Adair.
22⅜	33⅝	5	23½	Do. ...	Martyn Kennard.
22¼	...	4¾	13	Do. ...	Capt. Henry Streatfield.
22⅛	31	5	18⅞	Do. ...	Lord Ashburton.
22	30	5	14¾	Do. ...	W. E. Rowley.
22	29	4⅜	16½	Do. ...	Martyn Kennard.
22	29½	4⅜	18⅛	Do. ...	Sir Robt. Harvey, Bart.
21⅞	32⅜	4⅜	14⅞	Do. ...	F. J. Horniman.
21¾	31½	4½	18⅝	Do. ...	Major Cumberland.
21½	28⅝	4⅞	17⅝	Do. ...	Martyn Kennard.
21⅜	27⅜	4¾	18¼	Do. ...	Do.
21¼	28⅝	4⅝	16	Do. ...	Sir Robert Harvey, Bart.
21¼	30	4⅞	18¼	Do. ...	H.R.H. Duke of Edinburgh.
21¼	33¼	4⅝	16⅞	Do. ...	Martyn Kennard.
...	28	4½	16	Do. ...	Capt. G. Campbell.

* Albino.

BLACKBUCK or INDIAN ANTELOPE (Antilope cervicapra)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner
Straight.	Round Curve.				
21⅛	28¾	5	18¼	India ...	Lord Ashburton.
21⅛	31⅞	4½	7¾	Do. ...	The Hon. Charles Ellis.
21	25¾	4⅞	15¼	Do. ...	H. C. V. Hunter.
21	...	5¼	18	Do. ...	C. H. Seeley.
21	32	5¼	12⅝	Do. ...	Hume Collection, British Museum.
20¾	28⅛	5¼	14	Do. ...	Maj.-Gen. Arthur Ellis, C.S.I., 1859.
20½	30⅝	4¾	14	Do. ...	Do.
20½	28	5⅛	21½	Jullundei ...	Sir Victor Brooke's Collection, 1869
20½	28	4⅞	14	India ...	H. C. V. Hunter.
20½	28⅜	5	19¾	Do. ...	Martyn Kennard.
...	27	(owner's measurement)	...	Do. ...	Capt. Townley Parker.
20½	28⅜	5⅜	18¼	Do. ...	H.R.H. Duke of Edinburgh.
20⅜	27	4⅝	8¾	Do. ...	British Museum.
20⅛	26⅝	5¼	13⅛	Central India	Do.
20⅛	29¼	5	16⅞	India ..	H. C. V. Hunter.
20	27¾	5¼	16⅜	Do. ...	H.R.H. Le Duc d'Orleans.
20	27	5	12½	Do. ...	Maj.-Gen. Arthur Ellis, C.S.I., 1859.
19⅞	26¼	5⅝	11½	Do. ...	H. C. V. Hunter.
19⅞	26½	5	18⅝	Do. ..	Martyn Kennard.
19¾	24	4⅝	15⅜	Do. .	H.R.H. Duke of Edinburgh.
19⅝	29¼	5⅛	16⅛	Nepal ...	British Museum.
19½	...	4¾	19¼	India ...	Noel Fenwick.
19½	(owner's measurements)	5½	...	H. Haran ...	J. H. Mann.
19¼	25¼	4¾	14⅛	India ...	F. J. Horniman.
18⅞	27⅛	4¾	16⅞	Do. ...	Sir Victor Brooke's Collection.
18⅞	25¾	4⅝	15½	Do. ...	J. Carr-Saunders.

BLACKBUCK or INDIAN ANTELOPE (Antilope cervicapra)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight	Round Curve.				
18¼	25	4⅛	12¾	Madras ...	Sir Walter Elliot, Bart., British Museum.
18¼	25½	5⅞	14¾	India ...	H. R. H. Le Duc d'Orleans.
18½	28⅞	5¾	12⅛	Do. ..	H. R H. Duke of Edinburgh.
18½	26⅛	5⅛	10⅜	Do. ...	Hume Collection, British Museum.
18½	26	5	13¼	Do. ...	East India Club.
18⅜	25⅞	5½	15¾	Aligur ...	St. George Littledale, 1877.
18	(killed by a Cheetah)	4⅜	(owner's measurement)	Seroom nuggai	J. H. Mann.
17⅞	24¼	5	7¼	Meerut ...	R. Lydekker, British Museum.
17¼	27	4⅜	10¼	India ...	Sir Robert Harvey, Bart.
17⅛	24½	4¾	15¾	Aligur ...	St. George Littledale, 1877.
17½	23¼	4¾	12½	Burmah ...	British Museum.
17⅛	22¼	5	9⅝	India ...	Sir Robert Harvey, Bart.
17	21¾	5½	17	Aligur ...	St. George Littledale, 1877.
16	...	5	(owner's measurement)	H. Haran ...	J. H. Mann.

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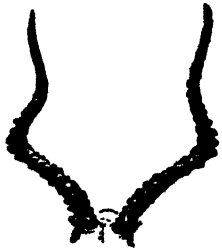


IMPALA ANTELOPE (Æpyceros melampus).

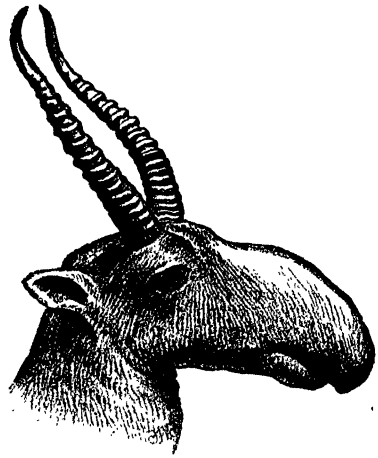
Bechuana name—"Pallah."

Habitat—South, East, and West Africa.

Length.		Circumference.	Tip to Tip.	Widest outside.	Habitat.	Owner.
Straight.	Round Bend.					
21½	...	6	16	17	East Africa ..	Rowland Ward's Collection.
21⅛	25	5⅞	17⅝	...	Do. ...	F. J. Jackson.
21	25¼	5⅞	18	..	Do. ...	Do.
21	27½	5⅞	14¼	...	South Africa	W Burchell, British Museum.
20½	...	5¾	15	18	East Africa ...	W. Astor Chanler.
20½	...	5⅝	11½	...	Do. ...	H. C. V. Hunter.
20½	25¼	5	12⅝	...	Do. ...	F. J. Jackson.
20⅜	23½	6	14½	...	Do. ...	Sir Robert Harvey, Bart.
20	...	...	...	16	Chobe River	F. C. Selous, 1879, "A Hunter's Wanderings."
20	...	...	...	18	East Africa ...	Sir J. Willoughby, "East Africa and its Big Game."
20	...	5¾	14¾	18	Africa ...	R. P. Carrol.
19¾	24⅞	5⅞	11⅝	...	Do. ...	Sir Edmund G. Loder, Bart.
19¾	24½	5½	12¼	...	South Africa	F. C. Selous.
19⅝	23⅜	5¾	10¼	...	Do.	The late J. S. Jameson.
19½	24¼	6	15⅜	...	East Africa ...	Sir Robert Harvey, Bart.
19½	23⅞	5¾	13¾	...	Do. ...	H. C. V. Hunter.
19¼	24⅜	6	9⅝	...	Do. ...	Sir Robert Harvey, Bart.
19¼	25⅞	6	7	..	Do. ...	H. C. V. Hunter.
19⅛	23⅜	6	10½	...	South Africa	A. Beit.

IMPALA ANTELOPE (Æpyceros melampus)—*continued.*

Length.		Circumference.	Tip to Tip.	Widest outside.	Habitat.	Owner.
Straight.	Round Bend.					
19⅛	24½	5⅝	12⅜	...	South Africa	British Museum.
19	24½	6	11⅝	...	... ...	J. Carr-Saunders.
19	24⅛	5⅞	8⅛	...	East Africa ...	H. C. V. Hunter.
19	...	5½	12½	16	South Africa	Gen. Mathews.
19	23½	5⅞	14¼	...	East Africa ...	Sir Robert Harvey, Bart.
19	...	6	21	20	South Africa	Rowland Ward's Collection.
18⅞	24	5½	14	...	Limpopo River	W. C. Oswell.
18¾	23¼	6	12¼	...	Kaoko Land, West Africa.	Capt. F. Cookson.
18⅝	23	6⅛	11⅜	...	East Africa ...	H. C. V. Hunter.
18⅝	24⅜	5¾	10¼	...	Do. ...	Sir Robert Harvey, Bart.
18⅝	23	5⅞	13⅜	...	Do. ...	Do.
...	23⅝	5½	9⅜	...	Do. ...	Hon. Walter Rothschild.
18½	23½	5⅞	11¼	...	South Africa	The late J. S. Jameson.
18⅜	22¼	5½	13⅛	...	East Africa ...	H. C. V. Hunter.
18⅛	25⅛	5½	10½	...	South Africa	F. C. Selous.
18	22½	5¾	10⅝	...	East Africa ...	Sir Robert Harvey, Bart.
18	21½	5⅝	12¾	...	South Africa	A. Beit.
17¾	22⅞	5⅝	6¼	...	East Africa ...	Sir Robert Harvey, Bart.
17¾	22¾	5½	13⅛	...	South Africa	British Museum.
17⅝	21¾	6	10⅛	...	Do.	F. C. Selous.
17¼	21½	5½	12¾	...	... ...	E. Lort-Phillips.
17⅛	20½	5⅞	11½	...	East Africa ...	Sir Robert Harvey, Bart.
17⅛	23¼	5⅝	7⅞	14¾	Africa ...	Hon. A. O. Murray.
17	...	5¾	8¾	14	South Africa	A. W. Davis.
16⅜	19⅜	5⅜	10¼	...	Do.	Sir Victor Brooke's Collection.
16⅜	19⅞	4¾	7⅜	...	Do.	G. H. Banks.
16¼	19¾	5⅛	12⅞	...	Do.	F. C. Selous.
15⅞	21¾	5¾	6½	...	Do.	W. Burchell, British Museum.



SAIGA (Saiga tartarica).

Habitat—Eastern Europe and Western Asia.

ngth.	Circumference.	Tip to Tip.	Habitat.	Owner.
14⅜	5¼	3½	... ...	Hon. Walter Rothschild.
13¾	5	...	... ...	Sir Edmund G. Loder, Bart.
13¾	4⅜	3½	... ...	Sir Victor Brooke's Collection.
13⅝	5	5½	Sarepta, South Russia.	British Museum.
13½	5⅜	4⅜	... ...	Hon. Walter Rothschild.
12⅞	5⅜	(single horn)	Russia	British Museum.
12⅞	4⅝	5⅝	Sarepta, South Russia.	Do.
12⅞	4⅝	(single horn)	Russia	Do.
12¾	4⅞	4½	... ...	Do.
11½	4¾	4⅝	... ...	Rowland Ward's Collection.
11¼	4¾	5	... ...	British Museum.
11	4⅞	4½	Siberia	Do.

THIBET ANTELOPE (CHIRU) (Pantholops hodgsoni).

Habitat—Western Thibet and Turkestan.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
27⅞	5⅞	13½	India	A. O. Hume, Private Collection.
27⅝	5½	11¼	Do.	Sir Robert Harvey, Bart.
27⅛	5½	15⅛	Do.	A. O. Hume, Private Collection.
26⅜	5⅞	13⅝	Do.	Hon. Charles Ellis.
25½	5½	12½	Do.	Capt. G. Campbell.
25⅜	5⅝	12½	Do.	Hume Collection, British Museum.
25¼	5¾	12¾	Do.	Do.
24⅞	5¾	13⅞	Do.	Do.
24¾	5¾	10	Do.	Do.
24¾	5⅝	11½	Do.	Sir Edmund G. Loder, Bart.
24¾	5⅝	14½	Do.	Hume Collection, British Museum.
24⅝	5⅜	11¾	Do.	Sir Robert Harvey, Bart.
24⅜	5¾	15¼	Do.	Hume Collection, British Museum.

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THIBET ANTELOPE (CHIRU) (Pantholops hodgsoni)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
24⅝	5¼	16½	India	British Museum.
24¼	5½	11	Do.	Sir Robert Harvey, Bart.
24¼	5⅛	13¾	Do.	British Museum.
24	5½	12½	Do.	Hume Collection, British Museum.
24	5⅜	14⅜	Do.	B. H. Hodgson, British Museum.
23¾	5¼	14½	Do.	British Museum.
23⅝	5¼	11⅝	Do.	H. C. V. Hunter.
23½	5	14¾	Do.	Reginald Beech.
23⅜	5⅛	10⅜	Do.	H. C. V. Hunter.
23⅜	5⅛	9⅞	Do.	Do.
23¼	5⅜	14⅝	Do.	Hon. Walter Rothschild.
23¼	5¼	14⅛	Do.	Rowland Ward's Collection.
23¼	5¼	10⅞	Do.	J. Carr-Saunders.
23⅛	5⅛	9½	Do.	Sir Victor Brooke's Collection.
22⅞	5⅜	13½	Ladak (15,000 ft.)	R. Lydekker, British Museum.
22¾	5½	11⅜	... ...	H. C. V. Hunter.
22⅝	5⅛	15⅛	Nepal	B. H. Hodgson, British Museum.
22½	5	12	India	F. Morrice.
22⅜	5⅝	10¾	Do.	H. C. V. Hunter.
22⅜	5¼	11⅛	Do.	Hon. Charles Ellis.
22	5⅛	11⅜	Do.	H. C. V. Hunter.
21¾	5⅜	12¼	Do.	Hume Collection, British Museum.
20⅝	5	11⅞	Do.	H. C. V. Hunter.
20½	5	9½	Do.	Capt. M. Murphy.
20⅜	5¼	10¼	Do.	Hume Collection, British Museum.
19¾	5½	11½	Do.	H. C. V. Hunter.
19	5⅛	9¾	Do.	Do.

GRANT'S GAZELLE (Gazella granti).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1878, p. 723.]

GENERAL colour, very rich fawn tinged with purple, the neck and back in certain lights mottled like watered silk; this pattern is gained by indefinitely bounded bands of darker hair. Central facial band darker than the neck and body and strongly tinged with rufous on the forehead; a large black patch above the nostrils; large facial streaks very definite, white; dark facial streak black, extending from the base of the horn to the eye, which it almost encircles, and from the eye to above the corners of the mouth; posterior to the eye is a small white patch; external surface of the ear-conchs streaked with dark brown; dark lateral and pygal bands distinctly marked, the former grizzled, the latter very broad and jet-black; lower two thirds of the tail black, the upper third white; the tip of the tail is tufted; for the remainder of its length, it is furnished with coarse hairs which project at right angles to its axis; chin, lower surface of the head, breast, belly, inside of limbs, and

rump white; the white of the rump extending forwards in an angle into the darker colour of the body; knee-brushes of moderate length, grizzled; horns of great length in both sexes, much compressed from side to side, marked by strong annulations which completely surround the horn for the proximal half of its length, but become obsolete on the posterior surface of its distal or upper half. The horns diverge at first gradually, then more boldly, their tips converging and giving to the set of the horns a remarkably perfect lyrate form.

Comparison with allied Species.

Gazella granti belongs, as pointed out in my former description, to the group of long-limbed large Gazelles which are distinguished by the white of the rump projecting in an angle into the fawn-colour of the back and sides (*vide* P.Z.S. 1873, p. 537, B.). The allied species are G. sœmmerringi, mohr, and dama. From all these it differs in the very much greater size, and in the form of the horns. It is also peculiar in the presence of the dark lateral band, which is wanting in the three above-named species, and in the remarkably definite black pygal band, which is only shown in very young specimens of G. sœmmerringi, is absent entirely in G. dama, and only indefinitely shown in G. mohr. In the watered-silk mottling of the neck and back Gazella granti differs from all other known Gazelles.

Habitat—East Africa.

ngth.	Circumference.	Tip to Tip.	Habitat.	Owner.
30	...	10	East Africa ...	Sir John Willoughby, Bart., "East Africa and its Big Game."
28¼	6⅝	15⅛	Do. ...	F. J. Jackson.
27⅞	6⅝	18⅜	Do. ...	H. C. V. Hunter.
27⅝	6¾	21½	Do. ...	F. J. Jackson.
27¼	6½	18⅞	Do. ...	Sir Robert Harvey, Bart.

GRANT'S GAZELLE (Gazella granti)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
27	...	16	East Africa ...	Sir John Willoughby, Bart.
26¾	6¾	12½	Do. ...	H. C. V. Hunter.
26½	7½	13¼	Do. ...	F. J. Jackson.
26⅜	6⅞	17⅞	Do. ...	H. C. V. Hunter.
26¼	6⅜	16¾	Do. ...	Sir Victor Brooke's Collection.
26	6¾	15⅝	Do. ...	Sir Robert Harvey, Bart.
25¾	6⅞	15⅝	Do. ...	Do.
25½	6⅝	11	Do. ...	F. J. Jackson.
25½	7	14½	... ...	Rowland Ward's Collection.
25	6½	14	East Africa ...	T. W. H. Greenfield.
24⅛	6¾	11¼	Do. ...	H. C. V. Hunter.
24	6	14	Do. ...	Sir John Willoughby, Bart.
24	6½	9¼	Do. ...	Rowland Ward's Collection.
23⅝	7	12¼	Do. ...	Sir Robert Harvey, Bart.
23⅝	6½	13¼	Do. ...	H. C. V. Hunter.
23⅝	6⅜	11⅛	Do. ...	Sir Robert Harvey, Bart.
23½	7⅛	11¾	Do. ...	Do.
23	7¼	9	Do. ...	E. Gedge.
23	6⅝	10⅝	Do. ...	Sir Robert Harvey, Bart.
22¾	6⅜	12⅛	Do. ...	Hon. Walter Rothschild.
22⅝	6⅛	16¼	Do. ...	Sir Robert Harvey, Bart.
22½	6⅜	11½	Do. ...	Do.
22½	6½	9¾	Do. ...	F. J. Jackson.
22¼	6½	9⅞	Do. ...	H. C. V. Hunter.
22⅛	6⅜	5⅞	Mount Land ...	F. J. Jackson, British Museum.
22	7	9	East Africa ...	E. Gedge.
22	6½	14½	Do. ...	W. Astor Chanler.

GRANT'S GAZELLE (Gazella granti)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
21¾	6½	15	East Africa ...	R. P. Carrol.
21	5⅜	7	Do. ...	F. J. Jackson.
20¾	6⅜	9⅞	Do. ...	J. Carr-Saunders.
20¼	5⅝	8⅛	Do. ...	British Museum.
19⅞	5¾	6⅜	Do. ...	F. J. Jackson.
19⅝	6½	7⅛	River Juba, Somali Land.	Sir John Kirk, M.D., K.C.B.
18⅝	6¼	8¼	Do.	Do.
17¾	6⅛	5¾	Do.	Do.
♀ 17½	3¾	9	East Africa ...	H. C. V. Hunter.
♀ 17	...	6	... ...	Sir John Willoughby, Bart., "East Africa and its Big Game."
17	6⅛	11¼	South Somali Land	Sir John Kirk, M.D., K.C.B., British Museum.
♀ 15	4	6¾	East Africa ...	E. Gedge.
♀ 12⅜	3½	7¾	South Somali Land	Sir John Kirk, M.D., K.C.B., British Museum.
♀ 12¼	3⅜	5⅝	River Juba, Somali Land.	Sir John Kirk, M.D., K.C.B.

SŒMMERRING'S GAZELLE (Gazella sœmmerringi).

(*Somali name*—"Awal.")

[Sir VICTOR BROOKE, Bart., P.Z.S., 1873, p. 549.]

HAIR smooth and short. Facial band blackish, slightly rufous between the horns; light facial streak white, well marked; dark facial streak blackish, very definite, running through the eye and leaving its upper end as a black spot isolated above it. A spot below the eye, chin, throat, and a spot in front of the neck white; lateral bands wanting; breast, belly, tail, and rump white, the white of the latter encroaching into the sandy fawn-colour of the rest of the body and the haunches. Knee-brushes well developed. Ears long, bordered externally with black. Horns in the male lyrate, massive, and strongly annulated, well developed but less massive in the female. Height about 30 in.

Habitat—Abyssinian coast of the Red Sea, Danakil and Somali countries, Berber, and East Senaar (Henglin).

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
19½	5½	5⅝	Somali Land ...	T. W. H. Clarke.
19¼	5½	6½	Do.	Do.
19	5¾	3	Do.	Gen. Trewell.
19	5	4	Do.	Col. A. Paget.
♀ 18¾	5¼	6	Do.	T. W. H. Clarke.
18⅛	5⅜	4½	Do.	W. D. James.
18	5¼	7	Do.	Marquis of Ailsa.
18	5	3¼	Do.	T. W. H. Clarke.

SŒMMERRING'S GAZELLE (Gazella

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
17¾	5⅝	3½	Somali Land ...	W. D. James.
17⅜	5½	5¾	Do.	A. H. Straker.
17	5½	4¾	Do.	Capt. Bartelot.
17⅜	5⅛	2½	Do.	C. Liddell.
17¼	5	4¼	Do.	C. Liddell.
17	5¼	3¼	Do.	Hon. Walter Rothschild.
16⅞	5⅜	6⅛	Abyssinia ...	British Museum.
16½	5¼	7	Somali Land ...	Capt. H. G. C. Swayne.
16½	5⅛	3⅜	Do.	T. W. H. Clarke.
16⅜	5	1¾	Do.	E. Lort-Phillips.
16	3⅜	3⅜	Do.	E. P. Hare.
16	5	4⅞	Do.	E. Lort-Phillips.
♀16	3⅛	6	Do.	Rowland Ward's Collection.
15½	5½	4 (owner's measurement)	Do.	J. D. Inverarity.
15⅜	5⅛	7⅛	Do.	J. Carr-Saunders.
15½	5⅜	5	Soudan ...	Col. Ralph Vivian.
15⅜	5⅛	3⅜	Somali Land ...	Lord Delamere.
♀15⅜	3⅜	5⅜	Do.	W. D. James.
14¾	5½	4¼	... ...	B. Cotton.
14½	5⅛	5½	... ...	Capt. W. H. Besant.
14½	5	6⅛	... ...	Do.
14½	5	4	Soudan ...	Col. Ralph Vivian.
14⅜	5⅛	5⅞	Somali Land ...	Lord Delamere.
♀14¼	2¾	10¼	Do.	C. H. Villiers.
14⅛	5⅜	1¼	Bogos Country, Abyssinia.	British Museum.
14	3⅝	6¼	Somali ...	Lord Delamere.
14	5½	5½	Soudan ...	Col. A. Paget.

SŒMMERRING'S GAZELLE (Gazella sœmmerringi)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13¾	5½	6	... ...	W. D. James.
13¾	5½	5⅜	... ...	Capt. W. H. Besant.
13½	5¼	4	North-East Africa.	Sir Victor Brooke's Collection.
13⅛	5⅜	5⅝	... ...	Hon. Walter Rothschild.
13¼	5⅛	6½	... ...	Capt. W. H. Besant.
13	5½	5	... ...	Do.
♀ 12⅝	3½	8¼	Soudan ...	Col. Ralph Vivian.
♀ 12⅛	3⅝	7⅛	Do. ...	Do.
12⅜	5⅛	4¾	... ...	Rowland Ward's Collection.
♀ 12	3¼	5⅛	Abyssinia ...	Sir Victor Brooke's Collection.
12	4⅞	3	... ...	Capt. J. J. Palmer.
11⅛	4¾	4	... ...	J. Carr-Saunders.
♀ 8½	3¾	5½	... .	Hon. Walter Rothschild.

MOHR (Gazella mohr).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 548.]

HAIR close-set and smooth; central facial band grizzled rufous above, fading away below into the dirty white of the lower parts of the face and cheeks; dark facial streak thin, but definite, black; spot on the throat, breast, belly, anterior of hind legs and posterior of fore legs, rump, and tail (with the exception of the black tip) white; the white of the rump projects forwards into the deep rufous fawn-colour of the neck, back, sides, and haunches; this colour, which is darkest on the neck, runs down the front of the fore and outside of the hind extremities; lateral bands wanting; pygal band blackish rufous, very thin and short; ears moderate; horns in both sexes; in the male very massive and rather short, strongly annulated, the points projecting suddenly and boldly forwards; knee-brushes long; height about 34 in.

The Mohr or Mhore, is 4 ft. 2 in. long from the nose to the origin of the tail, 2 ft. 6 in. high at the shoulder, and 2 ft. 8 in. at the croup; the length of the head from the nose to the root of the horn is 7 in.; that of the horn 9½ in. on the curve, and 7½ in. in a straight line; and that of the tail 7 in. without the terminal tuft.

Habitat—Senegal.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
♀ 12	3¼	5⅛	Abyssinia ...	Sir Victor Brooke's Collection.
7	4¼	2½	Do. ...	Dr. Ruppell, British Museum.

SOMALI LOWLAND GAZELLE (Gazella spekei).

(*Somali name*—" Dhero.")

Habitat—Somali, North-East Africa.

This gazelle has also been named Gazella nasu.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
11½	4⅜	2¾	Somali Land ...	T. W. H. Clarke.
11¼	4½	4¼	Do. ...	Do.
11⅛	4	5¼	Do. ...	C. Liddell.
11	3⅞	4⅛	Do. ...	Capt. H. G. C. Swayne.
10⅞	3⅞	2⅞	Do. ...	T. W. H. Clarke.
10¾	4½	4	Do. ...	Do.
10¾	3¾	3¾	Do. ...	E. Lort-Phillips.

SOMALI LOWLAND GAZELLE (Gazella spekei)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
10¾	4⅛	4¼	Somali Land ...	Col. A. Paget.
10½	3⅞	4⅛	Do. ...	A. H. Straker.
10⅜	3¾	3¾	Do. ...	E. Lort Phillips.
10¼	4	3⅞	Do. ...	T. W. H. Clarke.
10⅛	3⅞	4½	Do. ...	Hon. Walter Rothschild.
10⅛	3⅝	3½	Do. ...	W. D. James.
10	4	4¾	Do. ...	Rowland Ward's Collection.
10	4	(owner's measurement)	Do. ...	J. D. Inverarity.
♀ 9½	2⅞	3¼	Do. ...	T. W. H. Clarke.
♀ 9	2½	(owner's measurement)	Do. ...	J. D. Inverarity.

SOMALI PLATEAU GAZELLE (Gazella pelzelni).

THIS is common round Berbera, but is replaced by Gazella spekei when the Somali plateau is reached. It has often been mistaken for Gazella spekei, but can readily be distinguished from that species by its straighter horns and the absence of the loose skin on the nose.

Habitat—North-East Africa, Somali.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
12¼	4⅛	5½	Somali Land ...	Lord Delamere.
11½	3½	5½	Do. ...	T. W. H. Clarke.
♀ 7⅝	1¾	2¾	Do. ...	Do.
5⅜	1⅛	3⅜	Do. ...	C. H. Villiers.

ARABIAN GAZELLE (Gazella arabica).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 544.]

HAIR very short and smooth; central facial band rich bay above, darker below, forming a nose-spot; light facial streak very strongly marked, running from the base of the horn over the eye, stopping just below the nose-spot; dark facial streak distinct, blackish; breast and belly white; dark lateral and pygal bands grizzly brown; light lateral band grizzly fawn; upper parts of the sides and back rich grizzled bay in adult specimens, the younger animals being greyer; knee-brushes well developed, blackish; tail black; horns massive, the annulations wide apart, diverging gradually from two-thirds their length, the upper third diverging more decidedly, and leaning a little forwards; ears moderate; size about equal to that of Gazella dorcas.

Habitat—South Arabia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
8½	4	2	Mosha, South Arabia.	W. T. Blandford, British Museum.
4⅞	3⅛	3⅝	... ...	Sir Victor Brooke's Collection.

DORCAS GAZELLE (Gazella Dorcas).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 538.]

HAIR rather long and coarse; central facial band rufous above, inclining to fawn-colour towards the nostrils; a dark nose-spot sometimes present, not depending on age or sex; light facial streak distinct, encircling the eye; dark facial streak definite, brownish rufous; upper and under lip, breast, and belly white; dark lateral and pygal bands very definite, rufous brown; light lateral band distinguishable from the rich fawn-colour of the upper parts of the back by

its more silvery hue; knee-brushes well developed, in colour variable; tail black, long, and tapering; horns long and annulated, rather slender, with their points bent inwards and forwards; ears about $5\frac{1}{2}$ in.; height at shoulder barely 24 in.

Habitat—Syria, North Arabia, Egypt, Algeria, Morocco, and Senegal.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$13\frac{1}{4}$	$3\frac{5}{8}$	(touch)	Algeria	Rowland Ward's Collection.
$13\frac{1}{8}$	$4\frac{1}{4}$	$2\frac{1}{2}$	Do.	Sir Edmund G. Loder, Bart.
$13\frac{1}{8}$	$3\frac{1}{2}$	2	Do.	Do.
$12\frac{1}{2}$	$3\frac{5}{8}$	$4\frac{3}{4}$	Do.	Rowland Ward's Collection.
$12\frac{3}{8}$	$3\frac{3}{4}$	$2\frac{3}{4}$	Do.	Sir Edmund G. Loder, Bart.
$12\frac{3}{8}$	$3\frac{3}{8}$	...	... ...	British Museum.
$12\frac{1}{8}$	4	$2\frac{1}{2}$	Algeria	Rowland Ward's Collection.
$11\frac{7}{8}$	$3\frac{5}{8}$	$4\frac{1}{2}$	... ...	Sir Victor Brooke's Collection.
$11\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{7}{8}$	... ...	E. N. Buxton.
11	$3\frac{7}{8}$	$3\frac{1}{8}$	... ...	British Museum.
$10\frac{1}{8}$	4	$2\frac{1}{4}$	Shores of Red Sea	Do.
$10\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$	Nubia	Sir Victor Brooke's Collection.
$9\frac{7}{8}$	4	$4\frac{1}{8}$	... ...	E. Lort-Phillips.
$9\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{7}{8}$	... ...	British Museum.
$8\frac{7}{8}$	4	$4\frac{1}{8}$	... ...	E. Lort-Phillips.
$8\frac{7}{8}$	$3\frac{3}{8}$	$3\frac{1}{4}$	... ...	British Museum.
$8\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$	... ...	Capt. J. J. Palmer.
8	$3\frac{1}{2}$	$4\frac{1}{2}$	Shores of Red Sea	British Museum.
♀ $6\frac{5}{8}$	$2\frac{1}{4}$	$2\frac{1}{4}$	... ...	Capt. J. J. Palmer.

ISABELLA GAZELLE (Gazella isabella).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 539.]

HAIR very short and soft; central facial band sandy-rufous; nose-spot absent; light facial streak present but indefinite, running into the dark facial streak, which is in some specimens but faintly marked; dark lateral band almost obsolete; light lateral band of a delicate pale fawn-colour, distinctly visible against the isabelline sandy fawn-colour of the back and haunches; tail variable, but generally rufous for a large part of its length, the tip blackish; horns short, massive, and strongly ringed, the tips bent suddenly forwards and inwards; ears very long; height less than that of the last species (barely 24 in. at shoulder).

Habitat—Kordofan, Senaar.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
10¼	3¾	2¾	Anseba River, Abyssinia.	Sir Victor Brooke's Collection.
10⅛	3¾	4	Komayli, Abyssinia	W. T. Blandford, British Museum.
9¾	3¾	2⅜	Bogos Land ...	Sir Victor Brooke's Collection.
♀ 7	2	3	... ...	Do.
♀ 7	1⅞	2⅜	Kordofan ...	British Museum.
♀ 6⅞	2½	2⅛	Do.	Do.

GAZELLA DAMA.

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 547.]

HAIR short and smooth; facial and lateral markings wanting; neck, and upper part of the neck, sandy-red; face, spot on the throat, and the rest of the body and limbs white; knee-brushes well developed; ears moderate; horns lyrate, strongly annulated, well developed in both sexes.

Habitat—Desert of Korti (Rupp.), Southern Nubia, and Kordofan (Heugl.).

GAZELLA DAMA—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
11¾	6	3¾	Wednoon, Mogador.	W. Willshire, British Museum.
10½	4⅝	6⅜	Senegal	Sir Victor Brooke's Collection.

GAZELLA RUFIFRONS.

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 540.]

CENTRAL facial streak uniform sandy-yellow; light facial streak indefinite; dark facial hardly distinguishable from the colour of the cheeks, which are sandy-yellow; dark lateral band distinctly marked, brown; light lateral band plainly shown between the dark streak and the yellowish fawn-colour of the back and haunches; pygal-band indistinct; no knee-brushes; height, a little over 2 feet.

Habitat—Senegal.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
6⅛	2¼	2⅞	Bogos Country, Abyssinia.	British Museum.

ADDRA GAZELLE (Gazella ruficollis).

IT is about 5 ft. 4 in. long, and 3 ft. at shoulders; the head is 8 in. long, and tail about 9 in.

Habitat—North Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
12¼	4	5⅝	Senaar	British Museum.
11⅞	5⅝	⅝	Kordofan ...	Do.

PERSIAN and YARKUND GAZELLE (Gazella subgutturosa).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 545.]

HAIR in winter rough and coarse; in summer, much softer and smoother. During both seasons the dirty-white of the face and cheeks is only relieved by the dark facial streak, which is short and narrow, but defined by a sprinkling of rufous hairs; the lateral and pygal bands are very faintly indicated, the dark bands being more rufous, the light band rather paler than the grey fawn-colour of the upper parts of the body; breast and belly white; tail and ears moderate in length, the former blackish-rufous; horns absent in the female; in the male long, annulated, and lyrate, the points projecting inwards; height, about 26 in.

Habitat—High plateau of Persia, Northern Beloochistan, Afghanistan.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13¾	4½	6	Saissan, West Siberia.	Dr. O. Finsch, British Museum.
13⅜	4¾	5½	... ...	Hume Collection, British Museum.
13	4½	5	... ...	Do.
12¾	4¾	4⅜	... ...	Do.
12⅝	4¾	5¼	... ...	Do.
11¾	5	5⅛	... ...	Do.
10¾	4¼	6⅞	... ...	Hon. Walter Rothschild.
10⅝	4	3⅛	... ...	Hume Collection, British Museum.
6⅛	3⅞	2	... ...	Do.
5¾	3⅜	⅝	... ...	Do.

GUTTUROSA ANTELOPE (Gazella gutturosa).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 546.]

HAIR in winter long and coarse; anterior part of the face slightly darker than the pale grizzled fawn-colour of the sides of the face, neck, back, sides, and haunches; facial and lateral markings wanting; belly and anal disc, which surrounds the very short tail (the root of which is white, the tip fawn-colour), dirty white.

In summer all the parts which are grizzled fawn in winter are of an "intense isabel yellow" (vid. Radde); ears very short; horns short, weakly annulated, the curves as in the last species (G. Subgutturosa), but much less boldly shown; height about 30 in.

Skull: anteorbital fossa very shallow; nasals converge to a point and are rather elongated.

Habitat—Mongolia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13⅛	4⅝	6¼	Mongolia ...	Sir Edmund G. Loder, Bart.
12¾	4⅜	3⅜	Altai	St. George Littledale.
12¼	4⅜	4¾	... ...	Do.
11½	4⅞	3	Chinese Mongolia	Reginald Beech.
10¼	4⅜	2¾	Russia	British Museum.
9¾	4⅛	4⅜	Pekin	R. Swinhoe, British Museum.
7⅜	3¾	2½	Do.	Do.

THIBETAN RAVINE DEER (Gazella picticaudata).

Female without Horns.

Habitat—Western Thibet and Mongolia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13½	3⅝	5¼	... ...	Hume Collection, British Museum.
13⅛	4	3⅝	Thibet	H. C. V. Hunter.
13	3¾	3½	... ...	Do.
12⅞	3⅞	4¾	... ...	A. O. Hume, Private Collection.
12⅞	3⅞	4⅜	... ...	B. H. Hodgson, British Museum.
12¾	3⅞	2½	... ...	Hume Collection, British Museum.
12⅝	3½	2½	... ...	Do.
12¼	3¾	4¾	Thibet	H. C. V. Hunter.
12⅛	3⅝	3½	Do.	Do.

THIBETAN RAVINE DEER (Gazella picticaudata)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
12	$3\frac{3}{4}$	$6\frac{5}{8}$	... ...	A. O. Hume, Private Collection.
12	$3\frac{5}{8}$	$2\frac{1}{2}$	Thibet	H. C. V. Hunter.
$11\frac{7}{8}$	$3\frac{5}{8}$	$4\frac{1}{2}$	... ...	Sir Edmund G. Loder, Bart.
$11\frac{5}{8}$	$3\frac{3}{8}$	$5\frac{7}{8}$	Thibet	B. H. Hodgson, British Museum.
$11\frac{1}{2}$	$3\frac{5}{8}$	$4\frac{1}{8}$	... ...	Hon. Walter Rothschild.
$11\frac{3}{8}$	$3\frac{1}{4}$	$4\frac{7}{8}$	... ...	Rowland Ward's Collection.
$11\frac{1}{4}$	$3\frac{1}{2}$	$4\frac{3}{4}$	Thibet	B. H. Hodgson, British Museum.
11	$3\frac{5}{8}$	$3\frac{3}{8}$	Ladak	R. Lydekker, British Museum.
$9\frac{7}{8}$	$3\frac{1}{4}$	$3\frac{5}{8}$	Thibet	H. C. V. Hunter.
8	$3\frac{3}{4}$	$3\frac{1}{8}$	... ...	Sir Victor Brooke's Collection.

SPRINGBUCK (Gazella euchore).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 550.]

HAIR rather long but smooth; the central facial band has the upper part distinctly marked, but ends in a point between the eyes, rufous; the light facial streaks meet below the eyes, white; dark facial streak thin from above, downwards, but very definite, deep rufous; cheeks, line in front of the neck, breast, belly, inside of limbs, dorsal mane, starting from the anterior lumbar region, and tail (with the exception of the long black terminal hairs) white; dark lateral and pygal bands deep rufous, the former very broad and well defined; light lateral band very faintly shown, being of a less rufous tint than the fawn-colour of the shoulders, upper parts of the back, and haunches; ears long; horns in both sexes, but very small in the female; in the male they are truly lyrate, strongly annulated, and massive, of moderate length; knee-brushes absent; height at shoulder about 30 in.

Skull: nasal bones rather elongated and pointed; dentition, i. $\frac{0}{3}$, c. $\frac{0}{1}$, p. $\frac{3}{2}$, m. $\frac{3}{3}$; the first premolar in the upper jaw is almost rudimentary, its opposing tooth in the lower jaw is wanting; in the milk-dentition, however, the first of the three lower molars is represented by an exceedingly small cylindrical tooth.

Habitat—South and West Africa. This species does not appear to occur in the *Z*ulu country.

Length on curve.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	
15¼	6¼	3⅞	9 (outside)	... ...	National Liberal Club.
15⅛	6¼	5⅞	...	West Africa ...	Capt. F. Cookson.
15⅛	5¾	10⅞	...	... ...	W. C. Oswell.
15	5¾	2	7½	... ...	J. A. Nicoll.

SPRINGBUCK (Gazella euchore)—*continued.*

Length on curve.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner.
14¼	7	2½	8 (outside)	South Africa ...	A. W. Davis.
14¼	6¼	5	7¾	Do. ...	C. Ansell.
14	6½	2¼	...	Do. ...	The late J. S. Jameson.
14	5¾	4¼	7	... ...	British Museum.
14	5½	5½	8½	... ...	J. A. Nicoll.
13⅞	6	5⅜	7⅞	South Africa ...	F. C. Selous.
13⅝	5⅝	3½	6	... ...	British Museum.
13⅝	5½	7⅛	...	... ...	Sir Victor Brooke's Collection.
13½	5⅜	1¾	5¾	... ...	J. Carr-Saunders.
13⅜	5⅞	4⅜	6½	South Africa ...	F. C. Selous.
13¼	5⅜	5⅜	7⅞	... ...	British Museum.
13¼	5¼	5	...	... ...	Sir Edmund G. Loder, Bart.
13	6½	4⅝	9¼ (outside)	South Africa ...	C. Ansell.
13	5⅝	5	7½	Do. ...	A. Beit.
12⅞	5⅜	5½	...	... ...	W. C. Oswell.
12¾	5¼	3¼	6½	... ...	Rowland Ward's Collection.
12⅜	5½	3⅜	6	South Africa ...	F. C. Selous.
12⅛	5⅛	5¼	7⅛	... ...	British Museum.
11⅞	5¾	6½	...	... ...	Hon. Walter Rothschild.
11⅝	5⅞	4	...	South Africa ...	British Museum.
11⅜	5¼	4	6¼	... ...	Sir Victor Brooke's Collection.
♀ 11⅛	3	6¾	...	South Africa ...	The late J. S. Jameson.
♀ 10¾	3¼	5¾	6½	Do. ...	F. C. Selous.
♀ 10⅛	3⅜	2½	...	West Africa ...	Capt. F. Cookson.
10	4⅝	4⅛	...	... ...	British Museum.
♀ 8⅝	2½	4	4⅝	Natal	Do.
♀ 8	3⅛	2½	3⅞	South Africa ...	A. Beit.

INDIAN GAZELLE or RAVINE DEER (Gazella bennetti).

Habitat—India (Southern Beloochistan) and Southern Persia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
14¼	(owner's measurements)		Rajah Waller ...	Capt. H. V. Brooke, late 92nd Highlanders.
13¾	4½	7	... ...	Sir Victor Brooke's Collection.
12¾	4⅜	7½	... ...	H. C. V. Hunter.
12½	4½	6¼	... ...	Do.
12⅜	4	5½	Simrol, Bengal ...	Col. John Evans, British Museum.
11⅝	4	5¼	... ...	British Museum.
11⅝	4	4½	... ...	Sir Robert Harvey, Bart.
11½	4½	5¼	... ...	Lieut. F. E. Shafto-Adair.
11¼	4⅜	6⅞	... ...	British Museum.
11⅛	4⅝	5⅜	... ...	Hume Collection, British Museum.
11	4⅛	6	... ...	Do.

INDIAN GAZELLE or RAVINE DEER (Gazella bennetti)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
11	4⅛	5¼	... ...	Sir Robert Harvey, Bart.
11	3¾	6	... ...	C. H. Seely.
10⅞	4⅜	6⅜	... ...	Hume Collection, British Museum.
10⅞	4	5⅛	... ...	Maharajah Dhuleep Singh.
10⅞	3¾	7⅞	... ...	Sir Victor Brooke's Collection.
10¾	3⅝	4¾	... ...	F. J. Horniman.
10⅜	3¾	5⅛	... ...	Hume Collection, British Museum.
10	4½	5¼	Damoor, near Delhi	J. Hugh Mann.
10	4	4½	... ...	Marquis of Ailsa.
9⅞	4	5	Simrol, Bengal ...	Col. John Evans, British Museum.
9¾	3½	5⅛	Sind	R. Lydekker, British Museum.
9⅝	3⅞	4	... ...	J. Carr-Saunders.
9½	4¼	5⅛	... ...	Hon. Walter Rothschild.
9⅜	4	4	... ...	Hume Collection, British Museum.
9	3⅝	3⅞	... ...	Do.
♀ 7⅛	1⅝	2¼	... ...	Sir Victor Brooke's Collection.
♀ 4⅞	...	1½	Deccan	Col. Sykes, British Museum.

ATLAS GAZELLE (Gazella cuvieri).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 542.]

HAIR long and rather coarse; central facial band grizzled rufous brown above, darker below, sometimes forming a distinct nose-spot; light facial streak present, but indefinite; dark facial streak blackish brown, running into and blending with the grizzled rufous brown of the upper parts of the body; knee-brushes long, blackish; tail black; horns strongly annulated, massive and long, diverging gradually from about two-thirds their length, the upper third leaning more decidedly outwards and a little forward; hars very long.

Adult male: height, 27½ in.; length of horns, 12 in.; length of ears, 7¼ in.

The above description must be taken as applying to an average specimen, very great variety being exhibited by this large and well-marked species; in fact, out of a large series, including living specimens, I have never seen two for which the same description would suffice. The species, however, is easily known from all the other small gazelles by its larger size, rough coat, dark colour, and unusually long ears. As I have said above, I think the larger gazelle seen by Tristram in Algeria was probably of this species. A skull in my possession is very nearly as large as that of Gazella sæmmerringii.

Habitat—Morocco and Algeria.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
14⅞	5	3⅝	Algeria ...	Sir Edmund G. Loder, Bart.
♀ 13⅞	3½	7⅛	Ben-a-Chouf, North Africa.	E. N. Buxton, 1890.
♂ 12¾	4⅜	3⅝	Do.	Do.
12⅜	3¾	5¼	Algeria ...	Rowland Ward's Collection.

BLACK-TAILED GAZELLE (Gazella tilonura).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1873, p. 542; Antilope melanura (HENGL., ANT, und BÜFF), p. 6; 1869, Antilope tilonura (HENGL., REIS, WEISS, NIL.), p. 315.]

CENTRAL facial band rufous fawn; light facial streak indistinct, encircling the eye; dark facial streak very indistinct, almost indis-

tinguishable; neck, back, uppersides, flanks, haunches, shoulders, root of the tail, anterior of fore legs, knee-brushes, and outer sides of the hind legs sandy fawn-colour; dark lateral band distinct, blackish, very narrow from above downwards; light lateral very indefinite; breast and belly white; horns lyrate and strongly annulated.

Height, 29 in.; length of ears, $5\frac{1}{4}$ in.; length of tail, 8 in.; length of horns, 11 in.

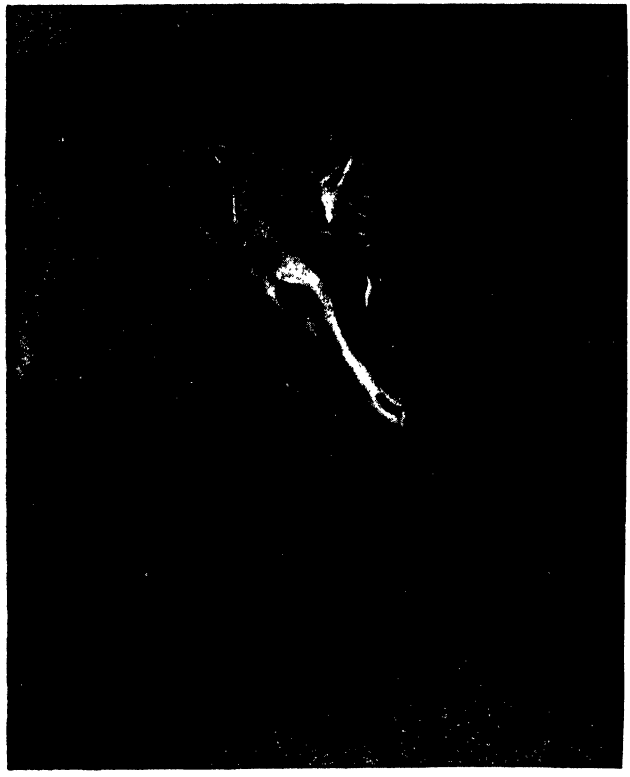
Habitat—Bushy plains of the Anseba, Bogosland (Hengl.), South Senaar (Casanova).

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$10\frac{3}{4}$	$3\frac{3}{4}$	$4\frac{1}{2}$	... ...	E. Lort-Phillips.
$10\frac{3}{4}$	4	$2\frac{1}{8}$	Bogos Country, Abyssinia.	British Museum.
$10\frac{1}{2}$	$4\frac{1}{8}$	$3\frac{3}{4}$	Do.	Do.
$10\frac{1}{4}$	$4\frac{1}{8}$	$2\frac{7}{8}$	North Africa ...	Col. Ralph Vivian.
$9\frac{7}{8}$	$4\frac{3}{8}$	$1\frac{7}{8}$	Bogos Country, Abyssinia.	Sir Victor Brooke's Collection.
$9\frac{7}{8}$	...	$1\frac{1}{2}$	Anseba River, Abyssinia.	Do.
$9\frac{3}{4}$	$3\frac{3}{4}$	$3\frac{1}{2}$	North Africa ...	Col. Ralph Vivian.
$9\frac{1}{2}$	$4\frac{1}{4}$	$1\frac{3}{4}$	Do. ...	Do.
$8\frac{1}{4}$	$3\frac{3}{8}$	$2\frac{1}{2}$	... ...	Lieut. E. Lacy.
$7\frac{3}{4}$	$3\frac{7}{8}$	$1\frac{5}{8}$	Bogos Country, Abyssinia.	British Museum.
♀ $5\frac{1}{8}$	$1\frac{3}{4}$	$1\frac{3}{4}$	Abyssinia ...	Sir Victor Brooke's Collection.

CORINNE (Gazella corinna).

Habitat—West Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
♀ $6\frac{1}{4}$	$2\frac{1}{8}$	$2\frac{3}{8}$	West Africa ...	British Museum.



Shot in Somali Land by T. W. H. Clarke, 1891.

CLARKE'S GAZELLE (Ammodorcas clarkei).

[OLDFIELD THOMAS, P.Z.S. 1891, p. 206.]

THIS most remarkable animal combines the horns of a Reed-buck (Cervicapra), with the essential characters of a Gazelle, showing a

When I received Mr. Clarke's specimens and examined this particular Gazelle, it was at once apparent to me that it was a new variety—a fact that I had the pleasure to convey to Mr. Clarke.—R. W.

special relationship to that most aberrant Gazelle the Gerenook (Lithocranius walleri), and appears certainly to be worthy of generic distinction. On the first arrival of the specimens, before the skulls were cleaned, and before Mr. Sclater had received from Mr. Swayne the face-skins mentioned below, the animal was naturally supposed to be a Reed-buck from the character of its horns, little likely as it appeared that a Reed-buck would occur in the dry sandy plateau of Somali Land. Now, however, that better material is available, I am able to draw up a fairly complete account of the more essential characters of this most beautiful Gazelle, of the discovery of which Mr. Clarke, both as a sportsman and naturalist, has so much reason to be proud.

Muzzle, character of face-marking, and presence of anteorbital glands as in Gazella; general form (as described by Mr. Clarke, see below) and skull more as in Lithocranius; horns in curve and general appearance as in Cervicapra.

Coloration of face, using Sir Victor Brooke's phraseology, as follows:—Central facial band deep rich chestnut-rufous, becoming duller towards the bases of the horns; light facial streaks pure white, very prominent and sharply defined, extending the whole length of the head from the bases of the ears to the corners of the nostrils, somewhat duller and more indistinct at their extremities, but broadening in the middle to encircle the eyes; dark facial streak present, but not strongly marked; cheeks and sides of neck pale fawn; throat white; crown between and behind horns brown or grizzled fawn, the latter condition occurring in the older of Mr. Swayne's two head-skins; a marked whorl of hairs situated between the ears; back of ears short-haired, dark fawn basally, gradually darkening to black terminally; insides white-haired, but with black tips.

Horns evenly curved upwards and forwards, the basal halves running backwards and the terminal halves nearly vertically upwards, the main curvature being therefore exactly in the opposite direction to that found in Gazella and Lithocranius. The horns themselves slender, their smooth unridged portion very long, the first indistinct ridge occurring about five inches from the tip. Ridges widely separate, strongly defined anteriorly, but becoming abruptly obsolete about half-way round, the sides and back showing scarcely a trace of them;

their number amounting to 10 in the oldest specimen available—a number probably but seldom much exceeded.

Skull diverging from that of Gazella and approaching that of Lithocranius by being unusually low, long in the occipital region with a comparatively straight cranio-facial angle with very small bullæ with the postero-internal wall of the suborbital fossæ imperfect, and with a remarkably small and slender lower jaw. On the other hand, it differs from the same skull by being peculiar to a less extent in all these points by the greater development of the premaxillæ posteriorly, where they have a broad articulation with the nasals, by the larger nasals and smaller interparietal, and by the larger and more powerful teeth, which are absolutely larger in the smaller animal.

In its skull characters, therefore, Ammodorcas stands just intermediate between Gazella and Lithocranius; in its muzzle and in the characters of its markings it agrees fairly with both, but in general form with the latter only, that animal, like it, being peculiar for its extraordinarily long neck, and finally, in the curvature of its horns it differs absolutely from both, as also from any of the other Gazelline genera, while it agrees with a group so different from it in all essential respects that the resemblance must evidently be an accidental one and not indicative of any relationship. Presumably the whole of the horn of this species is homologous with the terminal three or four inches of the Gerenook's horns, that is to say, with the upwardly curved part—the greater part of the horn having become obsolete while the upwardly curved tips have attained to a remarkable proportionate development.

The following are the dimensions of the skull of specimen:—

Length, occiput to gnathion, 210 millim., tip of nasals to occiput 176, greatest breadth 95; height, crown to angle of lower jaw, 94; nasals, length 67, breadth 26; interparietal, length 24, breadth 39; height of orbital opening 35, gnathion to front of anterior premolar 63; length of molar series 53; lower jaw, condyle to front of symphysis 153; height from coronoid process to angle 70; height of ramus at centre of m. 15·4, at posterior end of symphysis 9.

In a letter addressed by Mr. Clarke to Mr. Rowland Ward, the following notes on the appearance and habits of this species are

given :—"The Somali name for these antelopes is 'Debo Tag.' I shot them in the new country I went into, and did not see them in any other part. They have a very thin long tail, and when they run, throw it up and over towards the neck. The neck is very long and thrown back towards the tail, so that the two look as if they would touch each other."

Shortly after the arrival of Mr. Clarke's specimens, Mr. Sclater received from Mr. Swayne two scalps of this species which he had bought in Berbera, and these scalps Mr. Sclater has most kindly handed over to me for the purposes of the present paper. Fortunately, the muzzle of one of them has been preserved, so that I have been able to make out its strictly Gazelline character, and the description of the colours above given has also been taken from these specimens.

It is much to be hoped that more specimens of this beautiful Gazelle will soon be obtained, and that we may thereby gain a full knowledge of its range, habits, and natural affinities.

P.S. (May 14th).—Mr. Clarke has favoured me with the following notes on this new Gazelle :—

"I saw this Gazelle for the first time on December 17th, 1890, about three hours from Bairwell, or about one day from Buroa Well, Habergerhagi's country, and afterwards on the road all the way into the Marchan district, 8° N. 47° E. I killed a male, and found one of the horns broken off close to the skull, which had apparently been done a year or so ago.

"They are very graceful animals, with a long neck and well-proportioned head and horns; the body is rather slender, but considerably larger than in Gazella spekii, about the size of a female G. walleri. The legs are long and slender; the hoofs are not so triangular as those of G. spekii, and small for the size of the animal."

Mr. Clarke informs me that the female of Ammodorcas is without horns, a character which allies it still more closely with Lithocranius, and removes it from the typical Gazelles. The exact locality at which he obtained the specimens is about a day and a half from the Buroa Wells, Central Somali, about 100 miles south of Berbera.

CLARKE'S GAZELLE (Ammodorcas clarkei)—*continued.*

Habitat—Somali Land.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
11¾	4⅞	3⅝	Somali Land ...	Col. A. Paget.
11¾	4¾	3⅝	Do. ...	T. W. H. Clarke.
11¼	5	5	Do. ...	Col. A. Paget.
11¼	4½	4¾	Do. ...	T. W. H. Clarke.
10¼	4½	4½	Do. ...	Capt. Townley Parker.
10⅛	4⅞	3⅜	Do. ...	Hon. Walter Rothschild.
10⅛	4¼	4⅞	Do. ...	Rowland Ward's Collection.
9¾	4½	5⅛	Do. ...	T. W. H. Clarke, British Museum.
9¾	4½	4¾	Do. ...	Capt. H. G. C. Swayne.
9½	4⅝	3¾	Do. ...	T. W. H. Clarke.
8	3¾	2⅞	Do. ...	Marquis of Ailsa.
6⅛	3¼	2⅛	Do. ...	E. Lort-Phillips.

THOMSON'S GAZELLE (Gazella thomsoni).

THIS Gazelle was discovered in East Africa by Mr. Joseph Thomson, the celebrated explorer, and is rather rare.

Habitat—East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
15½	4¾	3¾	Uganda, East Africa	F. J. Jackson.
15½	4½	8½	Do. ...	E. Gedge.
15¼	4¾	4⅜	Do. ...	F. J. Jackson, British Museum.
14½	5	3½	Do. ...	E. Gedge.
14⅜	4¼	3⅛	East Africa ...	Sir Robert Harvey, Bart.
14¼	4¼	5⅞	Masai Land ...	H. C. V. Hunter, British Museum.
14¼	4	3¾	East Africa ...	H. C. V. Hunter.
13½	4⅜	4⅜	Do. ...	Rowland Ward's Collection.
13⅜	4⅝	4¼	Do. ...	Sir Robert Harvey, Bart.
13⅜	4½	5⅝	Do. ...	Hon. Walter Rothschild.
13	4½	4	Do. ...	W. Astor Chanler.
13	4½	3½	Do. ...	H. C. V. Hunter.
13	4½	2½	Do. ...	W. Astor Chanler.
12⅞	4¼	4⅛	Do. ...	Sir Robert Harvey, Bart.
12½	4¼	3	Do. ...	T. W. H. Greenfield.
12⅜	4⅜	3½	Do. ...	Sir Robert Harvey, Bart.

WALLER'S GAZELLE (Lithocranius walleri).

THIS Gazelle was described by the late Sir Victor Brooke from a specimen collected by the Revd. Mr. Waller in British East Africa.

Somali name—"Gerenook."

Habitat—Somali Land and East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
15⅜	5⅝	4	Somali Land ...	Capt. H. G. C. Swayne.
15⅜	5⅜	4⅛	Do. ...	C. Liddell.
14¾	5⅛	4¾	Do. ...	Lord Delamere.
14½	5½	3	Do. ...	Capt. H. G. C. Swayne.
14½	5	4½	Do. ...	Lord Delamere.
14⅛	5⅜	4¼	Do. ...	Do.
14	5½	3¾ (owner's measurement)	... ...	J. D. Inverarity.
14	...	3	East Africa ...	Sir John Willoughby, Bart., 1887, "East Africa and its Big Game."
14	5½	4	Somali Land ...	Lord Delamere.
13⅞	4⅝	5⅛	East Africa ...	H. C. V. Hunter.
13⅞	4⅞	2⅞	Somali Land ...	F. L. James, 1884.
13¾	4⅞	4⅛	Do. ...	E. Lort-Phillips.
13¾	5⅝	2⅞	North Somali Land	J. Menges, British Museum.
13¾	5⅜	3⅞	Somali Land ...	Hon. Walter Rothschild.
13¾	5¼	4⅜	Do. ...	Lord Delamere.

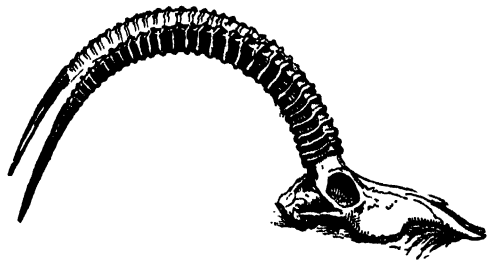
WALLER'S GAZELLE (Lithocranius walleri)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13⅝	5⅝	3¼	Somali Land ...	A. H. Straker.
13⅝	5⅛	4⅞	Do. ...	T. W. H. Clarke.
13⅝	4⅞	4⅝	Do. ...	C. H. Villiers.
13½	5⅞	6	... ...	C. Liddell.
13⅜	5⅝	3½	Somali Land ...	Hon. Walter Rothschild.
13¼	5½	3½	Do. ...	T. W. H. Clarke.
13¼	5⅜	5⅝	Do. ...	A. H. Straker.
13¼	4⅝	2⅝	Juba Valley, Somali Land.	Sir John Kirk, M.D., K.C.B.
13	5⅜	4	... ...	E. Lort-Phillips.
13	5½	4¾	Somali Land ...	Marquis of Ailsa.
13	5½	3½	Do. ...	J. Carr-Saunders.
13	5¼	5 (owner's measurement)	Do. ...	J. D. Inverarity.
13	4¼	4¼	Do. ...	J. Carr-Saunders.
12⅝	4¾	4¾	Do. ...	Lord Delamere.
12½	5½	3⅛	Do. ...	Col. A. Paget.
12½	5⅜	3⅞	Do. ...	Lord Delamere.
12½	5¼	2¾	Do. ...	T. W. H. Clarke.
12½	5½	4½	Do. ...	Do.
12½	4¾	2½ (owner's measurement)	... ...	J. D. Inverarity.
12½	4⅜	4¾	Kilima'njaro, East Africa.	F. J. Jackson.
12⅜	5⅜	4¼	Zanzibar	Sir Edmund G. Loder, Bart.
12⅜	5¼	5½	Somali Land ...	T. W. H. Clarke.
12⅜	4⅝	3¼	Juba Valley, Somali Land.	Sir John Kirk, M.D., K.C.B.
12¼	4¾	5	Do.	Do.
12	5½	5½	Somali Land ...	Gen. Trewell.
11¾	5¾	5¾	Do. ...	C. H. Villiers.
11⅝	4¾	4⅜	East Africa ...	Sir Robert Harvey, Bart.

WALLER'S GAZELLE (Lithocranius walleri)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
11⅝	4⅝	4¼	South Somali Land	Dr. Kirk, British Museum.
11⅝	4⅜	2½	East Africa ...	Sir Robert Harvey, Bart.
11⅜	4¾	3⅞	Juba Valley, Somali Land.	Sir John Kirk, M.D., K.C.B.
11¼	5¼	4¾	Somali Land ...	Sir Victor Brooke's Collection.
11¼	4¾	4¼	East Africa ...	Sir Robert Harvey, Bart.
10¾	5	3¾	Somali Land ...	F. L. James, 1884.
10¾	4¾	3	South Somali Land	Sir John Kirk, M.D., K.C.B., British Museum.
10¼	4¾	4½	East Africa ...	Sir Robert Harvey, Bart.
10¼	4¾	4¼	Do. ...	Do.
9⅜	4¼	3¾	South Somali Land	Sir John Kirk, M.D., K.C.B., British Museum.

The Horns of the specimens from Somali Land are very much longer than those which I have received from British East Africa, as will be seen by reference to the above measurements.



SABLE ANTELOPE (Hippotragus niger)

HEIGHT at shoulder 4 ft. 6 in., tail 25 in., ears 10 in., extreme length nearly 9 ft.

Sena name—"Para-Para." *Bechuana name*—"Tahetse."
Makalolo name—"Qualata e Enchu."
Habitat—South and East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
46	...	...	South Africa ...	F. and H. Barber, "Land and Water," January 2nd, 1892.
44½	10½	...	... ...	F. V. Kirby, "Land and Water," January 2nd, 1892.
44	...	...	Chobe River ...	F. C. Selous, "A Hunter's Wanderings."
43½	9¾	15	South Africa ...	The late J. S. Jameson.
43¼	9⅝	8¼	Do. ...	Do.
43	9¾	6½	Mashuna Land ...	F. C. Selous, British Museum.
43	10¼	13	... ...	Major Gould Adams.
43	...	...	Chobe River ...	F. C. Selous, "A Hunter's Wanderings."
42⅞	10⅜	16⅛	... ...	F. C. Selous.
42⅞	9¾	10¾	... ...	J. Carr-Saunders.
42¾	9⅝	17⅜	... ...	F. C. Selous.
42⅝	9⅞	9½	South Africa ...	Bethnal Green Museum.

SABLE ANTELOPE (Hippotragus niger)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
42⅝	9½	11½	... ...	J. A. Jameson.
42½	9⅝	10⅝	... ...	F. C. Selous.
42⅜	9	19½	... ...	Do.
42	9¼	12¾	... ...	J. Carr-Saunders.
41⅞	9½	14	... ...	J. A. Jameson.
41¾	9⅝	12	South Africa ...	A. Beit.
41¾	...	9½	... ...	A. C. Fountaine.
41⅝	9¾	11	... ...	F. C. Selous.
41¼	10	12⅞	South Africa ...	Hon. Walter Rothschild.
41	10¼	7¾	... ...	A. Haggard.
41	10	7⅝	South Africa ...	The late J. S. Jameson.
41	...	13¼	... ...	Dr. Knight Bruce, Bishop of Bloomfontein.
41	9	14¾	... ...	J. A. Jameson.
40⅞	8⅞	12¼	South Africa ...	The late J. S. Jameson.
40⅝	9¾	12¾	... ...	F. C. Selous.
40⅝	9½	16¼	... ...	Do.
40⅛	9⅜	11⅜	... ...	Do.
40	9¼	...	... ...	Rowland Ward's Collection.
39⅛	9⅛	9½	South Africa ...	The late J. S. Jameson.
♀ 39⅛	6¼	6⅝	... ...	F. C. Selous.
39	10	11	... ...	Rowland Ward's Collection.
39	9¾	9⅜	... ...	Dr. Knight Bruce, Bishop of Mashuna Land.
39	9½	...	... ...	H. S. Runcheman.
39	9	10⅜	... ...	Sir Victor Brooke's Collection.
38½	9⅝	13½	South Africa ...	The late J. S. Jameson.
38⅛	9⅜	11	River Umferli, South Africa.	F. C. Selous, British Museum.
38	9½	12½	... ...	B. J. Angle.

SABLE ANTELOPE (Hippotragus niger)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
37⅛	8¾	12½	... ...	Sir Victor Brooke's Collection.
37	...	9½	... ...	Capt. W. C. Harris, P.Z.S. 1838, p. 2.
36½	9¼	7¼	South Africa ...	W. P. Rylands.
36⅜	9⅝	11⅞	... ...	A. M. Sagar Musgrave.
36¼	9	11¾	Caffraria ...	British Museum.
36	10½	9	... ...	Lord Elphinstone.
35⅝	9	8⅝	South Africa ...	W. P. Rylands.
35⅜	9⅛	8⅝	Do. ...	Durban Museum.
♀ 34⅛	6⅜	8½	Do. ...	The late J. S. Jameson.
♀ 34	6¾	8¾	... ...	F. C. Selous.
♀ 34	6⅛	8⅛	South Africa ...	W. P. Rylands.
♀ 33¾	6⅜	13¾	Do. ...	A. Beit.
33⅝	8¼	14½	Zanzibar ...	Sir John Kirk, M.D., K.C.B.
♀ 32¼	6½	10½	South Africa ...	W. P. Rylands.
♀ 31½	7	12⅝	Algoa Bay ...	British Museum.
♀ 30⅝	6⅝	12⅛	... ...	F. C. Selous.
♀ 30¼	6⅜	12	Mashuna Land ...	Do. British Museum.
♀ 29⅞	6⅞	15¾	... ...	Do.
♀ 29½	6⅝	8⅜	South Africa ...	H. and C. Beddington.
♀ 27⅛	6⅞	6¼	Caffraria ...	British Museum.
♀ 27	6½	10⅝	... ...	Sir Victor Brooke's Collection.
♀ 26¼	6¼	13¼	... ...	A. Haggard.
♀ 25¼	6⅝	10½	South Africa ...	F. J. Horniman.
♀ 24¾	6¼	1⅞	Do. ...	R. Gordon-Cumming, British Museum.
24⅛	8⅝	9½	Do. ...	H. and C. Beddington.
23⅝	7¼	11¼	Do. ...	Do.
♀ 23½	6⅜	7½	... ...	A. M. Sagar Musgrave.

ROAN ANTELOPE (Hippotragus leucophœus).

Habitat—South Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
33	...	...	South Africa ...	A. C. Fountaine.
31¾	9½	5½	Do. ...	Sir Edmund G. Loder, Bart.
31½	9½	11⅞	Do. ...	F. C. Selous.
30⅞	9½	10⅝	Do. ...	Do.
♀ 30½	7	7⅜	Do. ...	Do.
30¼	10	9½	Do. ...	Do.
29⅞	10	14	Do. ...	The late J. S. Jameson.
29⅞	9⅝	11¼	Do. ...	Hon. Walter Rothschild.
29¾	8⅛	12⅞	Limpopo ...	W. C. Oswell.
29⅝	9½	10	South Africa ...	Hon. Walter Rothschild.
29⅜	9⅝	11⅜	Do. ...	F. C. Selous.
29⅛	9⅛	7¾	Do. ...	H. and C. Beddington.
29	...	...	Mashona Land ...	F. C. Selous, 1880, "A Hunter's Wanderings."
29	...	...	Impaqui River ...	F. C. Selous, 1876, "A Hunter's Wanderings."
28⅞	9	7¼	South Africa ...	F. C. Selous.
28¾	8⅞	12⅞	Do. ...	J. A. Jameson.

ROAN ANTELOPE (Hippotragus leucophœus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
28⅝	9¾	9⅝	Mashona Land ...	F. C. Selous, British Museum.
28¼	9⅝	8	River Manyane ...	Do.
28	9½	13½	South Africa ...	F. C. Selous.
27⅞	8⅜	8¼	Do. ...	Sir Edmund G. Loder, Bart.
27⅝	9⅛	9	Do. ...	J. Carr-Saunders.
27½	10½	3	Do. ...	A. C. Fountaine.
27½	9	11½	Do. ...	G. H. Banks.
27⅜	9¾	8½	Do. ...	A. Beit.
27⅛	9¾	9¼	Do. ...	Sir Victor Brooke's Collection.
26⅞	8⅝	10½	River Gambia ...	Dr. P. Rendell, British Museum.
26½	10⅛	10¾	South Africa ...	The late J. S. Jameson.
26¼	9¾	7⅝	Do. ...	F. C. Selous.
26	9	8	South Africa ...	British Museum.
26	8⅞	8⅛	Do. ...	Do.
♀ 25⅞	6¾	7	Do. ...	F. C. Selous.
25⅝	9½	7⅜	Do. ...	Sir Victor Brooke's Collection.
24½	9½	5⅝	Limpopo ...	W. C. Oswell.
24¼	8⅞	8½	South Africa ...	A. Beit.
♀ 23⅛	7	8¼	Limpopo ...	W. C. Oswell.
23	9¼	9⅛	South Africa ...	Rowland Ward's Collection.
23	6⅜	9	Do. ...	British Museum.
♀ 22⅝	5¾	9	Limpopo ...	W. C. Oswell.
22¼	6⅝	13⅛	Cape of Good Hope	Earl of Derby, British Museum.
22⅛	7⅛	8	... ...	W. D. James.
21⅞	7	9⅛	Abyssinia ...	E. Lort-Phillips.
17¾	6⅛	9¼	Do. ...	British Museum.
14	9½	7½	South Africa ...	A. W. Davis.

HIPPOTRAGUS KOBA.

Habitat—Gambia.

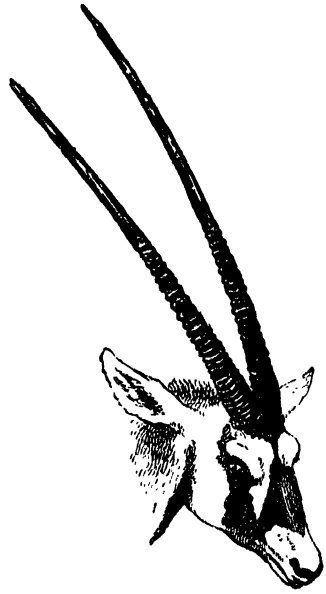
Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
26	8⅞	7⅛	Gambia ...	Earl of Derby, British Museum.
20⅝	6⅞	7¾	Do. ...	Do.

BAKER'S ANTELOPE, or MAARIFFE (Hippotragus bakeri).

THIS Antelope much resembles the South African Roan Antelope, and was discovered in 1860 by Sir Samuel Baker, Bart.

Habitat—Africa—Soudan.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
28½	8½	(malformed)	Soudan	Col. Ralph Vivian.
28⅜	9	11¾	Do.	Do.
27	...	...	... ...	Sir Saml. Baker, Bart. (P.Z.S. 1861).
25⅛	9¾	5⅜	... ...	Sir Edmund G. Loder, Bart.



GEMSBUCK (Oryx gazella).

Habitat—South Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
47½	6¾	17½	South Africa ...	The late J. S. Jameson.
44⅝	6⅝	21⅞	Bakalahari ...	W. C. Oswell.
43½	7⅝	17	Do. ...	Do.
43⅜	6⅜	18½	South Africa ...	F. C. Selous, British Museum.
43¼	6⅝	20⅞	Do. ...	Sir Victor Brooke's Collection.
43⅛	6⅞	...	Do. ...	F. C. Selous.
43	7	18¾	Do. ...	Rowland Ward's Collection.

GEMSBUCK (Oryx gazella)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
42½	6½	19	Botletlie River ...	F. C. Selous.
42½	7	...	... ...	Major Gould Adams.
42	...	...	... ...	Mrs. Murray.
41¾	7⅛	18½	... ...	F. C. Selous.
41	7½	22	... ...	T. Gibb.
41	6¾	18½	... ...	M. E. Stephens.
♀ 40¾	6⅝	17⅛	West Africa ...	Capt. F. Cookson.
40¾	6⅞	16½	South Africa ...	R. C. Dobson.
40⅝	6¾	16½	Transvaal ...	H. Atkinson.
40½	6¾	21⅝	South Africa ...	F. C. Selous.
40¼	7	17	Do. ...	Hon. Walter Rothschild.
40⅛	6¾	18½	Do. ...	The late J. S. Jameson.
40	7	21¾	Do. ...	F. C. Selous.
40	6⅞	18¼	Do. ...	Sir Edmund G. Loder, Bart.
39¾	6¾	20	Do. ...	St. George Littledale.
39⅝	7¾	14	Do. ...	The late J. S. Jameson.
39¼	6¾	17⅝	Do. ...	Do.
38⅞	6¾	15½	Do. ...	A. Beit.
38⅞	6⅝	18⅝	Do. ...	Do.
38½	6⅜	18¼	Do. ...	Do.
38½	7⅜	21⅞	West Africa ...	Capt. F. Cookson.
38⅛	6⅜	18½	South Africa ...	F. C. Selous.
38	...	18¾	Do. ...	A. C. Fountaine.
38	6⅜	17⅞	Do. ...	National Liberal Club.
38	7¾	15¾	Do. ...	A. W. Davis.
37⅞	6⅞	19¾	Do. ...	The late J. S. Jameson.
37¾	6½	18½	Do. ...	C. Ansell.

GEMSBUCK (Oryx gazella)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
37⅛	6⅞	16⅞	North Bechuanaland.	F. C. Selous, British Museum.
♀ 36¾	6⅝	...	Do.	Do.
36¼	7⅜	16	South Africa ...	Hon. Charles Ellis.
35⅞	7¾	15¼	Algoa Bay ...	J. Wemyss, British Museum.
35⅝	7⅛	16½	South Africa ...	H.R.H. Duke of Edinburgh.
35½	7½	14	Do. ...	J. A. Nicoll.
35	7⅝	13¾	West Africa ...	Capt. F. Cookson.
34¾	7¼	14	Transvaal ...	H. Atkinson.
34⅝	8⅜	12⅞	South Africa ...	J. Carr-Saunders.
34	6	17¾	Do. ...	Hon. Charles Ellis.
33⅞	7¼	16¼	Do. ...	F. C. Selous, British Museum.
32½	7½	17⅜	Do. ...	Bethnal Green Museum.

It is interesting to note that the finest Gemsbuck specified above was shot by the late J. S. Jameson when he was pursuing his last hunting journey, accompanied by F. C. Selous, before he started on that expedition which cost him his life.

BEISA ANTELOPE (Oryx beisa).

Somali name—"Berid." *Habitat*—North-East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
♀ 39	5½	8	Somali Land ...	E. P. Hare.
36	6½	...	Do. ...	Capt. Brinkley.
35	6	9	Do. ...	Col. A. Paget.
35½	6¼	8¼	Do. ...	Capt. Townley Parker.
34½	...	9½	Do. ...	Ernest Horn.
♀ 34¾	5¼	8¾	Do. ...	Capt. Townley Parker.
34½	...	(owner's measurement)	Do. ...	T. W. H. Clarke.
34⅜	8⅞	11⅝	Do. ...	Do.
33⅝	6¾	9⅜	Do. ...	A. H. Straker.
33½	5½	7⅝	Do. ...	Col. A. Paget.
33⅜	4⅞	7⅝	Do. ...	W. D. James.
33¼	5⅝	2¾	Do. ...	A. H. Straker.
33¼	5½	9	Do. ...	Rowland Ward's Collection.
♀ 33	5¼	9½	Do. ...	Capt. Bartelot.

BEISA ANTELOPE (Oryx beisa)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
♀ 32⅝	5	8	Somali Land ...	C. H. Villiers.
32⅜	6¼	6¼	Do. ...	Lord Delamere.
32	6½	9½	Do. ...	Capt. Bartelot.
32	5¼	9⅜	Do. ...	Lord Delamere.
32	5 1/16	8⅛	Do. ...	Col. A. Paget.
32	5⅛	9⅞	Do. ...	E. Lort-Phillips.
31¼	6¾	8	Do. ...	E. P. Hare.
31⅛	6	8	Do ..	Lord Delamere.
31⅛	5	7⅛	Do. ...	Sir John Kirk, M.D., K.C.B.
30⅞	5¼	10½	River Juba, Somali Land.	Dr. Kirk, British Museum.
30¾	6	7⅛	Somali Land ...	E. Lort-Phillips.
30¾	6¼	8	Do. ...	T. W. H. Clarke.
30½	6½	7½	... ...	Marquis of Ailsa.
30½	6	7¾	Somali Land ...	Capt. H. G. C. Swayne.
30½	5½	7	Do. ...	H.R.H. Duke of Edinburgh.
30⅜	6¼	9	Do. ...	Sir John Kirk, M.D., K.C.B.
30⅛	5	8¼	Do. ...	C. Liddell.
30	4⅞	9	River Juba, Somali Land.	Sir John Kirk, M.D., K.C.B.
30	5⅜	5½	Do.	C. Liddell.
29¼	5⅝	9⅞	Somali Land ...	Hon. Walter Rothschild.
28⅝	6	7⅞	Do. ...	Sir Edmund G. Loder, Bart.
28½	5½	10	Do. ...	Rowland Ward's Collection.
27¾	5¼	(one horn malformed)	Do. ...	Lord Delamere.
27¾	4¾	6¾	Do. ...	Sir John Kirk, M.D., K.C.B.
27½	6½	8⅛	Do. ...	H.R.H. Duke of Edinburgh.
26½	6¾	8¾ (owner's measurement)	Do. ...	J. D. Inverarity.
25¾	4⅝	8⅜	Abyssinia ...	British Museum.

BEATRIX ANTELOPE (Oryx beatrix).

[DR. J. E. GRAY, P.Z.S. 1857, p. 157.]

THE horns slender, straight, or only very slightly curved near the tip; White, a spot on the middle of the face, a smaller spot between the base of the horns, a large patch on each cheek, extending above up to the eyes, and united together beneath under the throat; the knees and front of the fore and hind legs, and a large spot on the chest, dark blackish brown; the legs to the posterior grey-brown; end of the tail black.

This specimen is not half the size of the Gemsbok from the Cape, and is immediately known from it by the distribution of its colours.

In form and size it resembles the true Oryx (O. leucoryx), but it differs in the straightness of the horn, the size and form of the cheek-spots, and especially in the dark colour of the legs, and the well-marked white ring around the fetlock joint, just above the hoof.

The hair is whorled on the middle of the haunches like the rest of the genus, and the hairs of the back in front of the withers are directed forwards.

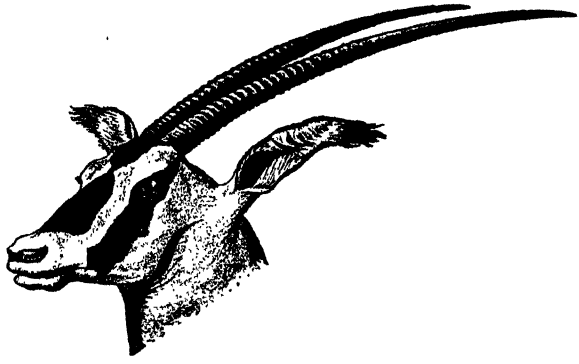
Habitat—Head of Persian Gulf.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
♀ 15	3⅜	4½	Head of Persian Gulf.	B. T. Finch, British Museum.

LEUCORYX (Oryx leucoryx).

Habitat—North Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
39⅝	4⅞	14⅛	... ...	British Museum.
37⅝	5¼	7¼	... ...	Do.
35⅝	5½	11⅞	... ...	J. Carr-Saunders.
33⅞	5½	8	... ...	Hon. Walter Rothschild.

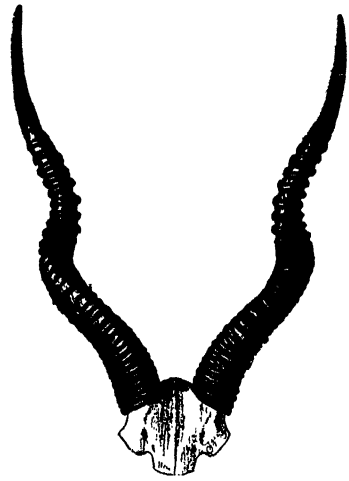


EAST AFRICAN ORYX (Oryx callotis).

Habitat—Africa, Masai Land and adjoining territory.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
30½	5¾	10½	East Africa ...	F. J. Jackson.
30¼	...	6	Do. ...	T. W. H. Greenfield.
30	...	10	Do. ...	Sir John Willoughby, Bart., "East Africa and its Big Game."
29½	5⅝	7⅜	Do. ...	Sir Robert Harvey, Bart.
28⅞	6½	10⅛	Do. ...	Do.
28¾	5⅝	6½	Do. ...	H. C. V. Hunter.
27¾	6⅞	10¼	Do. ...	F. J. Jackson.
27⅛	6⅞	8½	Do. ...	Sir Robert Harvey, Bart.
27	7⅛	7⅜	Do. ...	H. C. V. Hunter.
26⅝	7	13	Do. ...	Sir Robert Harvey, Bart.
26⅜	6⅞	8⅜	Do. ...	Do.
26¼	5⅞	9¾	Do. ...	F. J. Jackson.
26	6	9	Do. ...	E. Gedge.
23	5½	8	Do. ...	W. Astor Chanler.
22⅞	6½	8½	Do. ...	Sir Robert Harvey, Bart.
21⅝	7	10	Do. ...	Do.
*21	6¾	10	Do. ...	Rowland Ward's Collection.

* The type specimen from which this Antelope was described I have presented to the British Museum. Until the date of my noticing its points of difference, this variety had been referred to as Oryx beisa.—R. W.



ADDAX (Addax asomaculatus).

THIS Antelope has rarely been shot by Europeans. It closely approaches the South African Gemsbok in size.

Habitat—North Africa.

Length.		Circumference at base.	Tip to Tip.	Habitat.	Owner.
Along curve.	Straight line.				
35¾	28	6⅜	13⅝	North Africa ...	Hon. Walter Rothschild.
35½	28	6½	13½	Do. ...	Rowland Ward's Collection.
33⅞	28⅜	5⅞	22	Do. ...	Sir Edmund G. Loder, Bart.
32¼	26⅛	6⅛	13½	Do. ...	Rowland Ward's Collection.
31⅝	26¼	6⅜	17⅜	Do. ...	Do.
31	26⅞	6	13½	Do. ...	Do.
29⅞	24	6	14¾	Do. ...	Do.
28¾	24⅞	5½	12⅝	Do. ...	British Museum.
28	...	5	16½	Do. ...	Rowland Ward's Collection.
26	22½	6	17½	Do. ...	Do.

NILGHAI (Boselaphus tragocamelus).

[From "The Mammals of India," by T. C. Jerdon.]

MALE of an iron-grey colour; lips, chin, lower surface of the tail, stripes inside the ears, rings on the fetlocks and abdomen white; head and limbs tinged with sepia-brown; mane, throat-tuft, and tip of tail, black.

The female is a good deal smaller than the male and tawny or light brown.

Length of male about 6½ to 7 feet; height at shoulder 4 feet 4 inches to 4½ feet; horns 8 to 9 inches, rarely 10; ear 7 inches, very broad; tail 18 to 21 inches.

Habitat—India.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
9¼	6¾	4⅞	India	British Museum.
8⅞	6⅝	3½	Do.	A. O. Hume, Private Collection.
8⅜	5¾	4⅜	Do.	Do.
8¼	7⅛	7¾	N. India	Sir Victor Brooke's Collection.
8⅛	6⅛	5	India	Hume Collection, British Museum.
7¾	5½	5¼	Do.	Rowland Ward's Collection.
7⅝	6⅛	5¼	Do.	Hume Collection, British Museum.
7½	5⅜	7⅜	Cent. Provinces ...	G. A. Carmichael, British Museum.
7⅜	5¾	5⅞	India	Hume Collection, British Museum.
7¼	5¼	6½	Do.	A. Wilson.
7⅛	6⅜	4⅞	Do.	Hon. Walter Rothschild.
6¾	5¼	4¾	Do.	Marquis of Ailsa.
6⅝	5¼	5¾	Do.	H.R.H. Duke of Edinburgh.
6½	5⅜	5⅜	Do.	J. Carr-Saunders.
6⅛	4⅝	6⅜	Do.	British Museum.
6	6½	5⅜	Do.	Sir Robert Harvey, Bart.

BUSHBUCK (Tragelaphus sylvaticus).

Bechuana name—"M'Pabala."
Lower Zambesi and Shiré name—"M'Bawala."
Habitat—South and East Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
15½	5¾	9¼	South Africa ...	Rowland Ward's Collection.
15	5⅜	4½	Do. ...	F. C. Selous.
14⅝	5¾	2¾	Do. ...	G. H. Banks.
14¼	...	4⅛	... ...	Rowland Ward's Collection.
14	5⅞	5¾	Matabele Land, South Africa.	H. and C. Beddington.
13⅞	5¾	5½	... ...	H. R. H. Duke of Edinburgh.
13¾	5¾	6½	... ...	Hon. Walter Rothschild.
13¾	5½	5⅜	... ...	Sir Edmund G. Loder, Bart.
13⅝	5⅞	5⅞	Matabele Land, South Africa.	H. and C. Beddington.
13⅝	5½	5½	East Africa ...	H. C. V. Hunter.
13⅝	5⅜	4⅛	... ...	Sir Victor Brooke's Collection.
13½	5½	7	South Africa ...	F. C. Selous.
13½	5¼	5½	Matabele Land, South Africa.	H. and C. Beddington.
13⅜	5⅜	5	South Africa ...	F. C. Selous.
13⅛	5¼	6	Do. ...	Do.
13	6¼	5⅛	East Africa ...	F. J. Jackson.
13	5½	5½	Matabele Land, South Africa.	H. and C. Beddington.
12⅞	5	6⅝	... ...	W. C. Oswell.

BUSHBUCK (Tragelaphus sylvaticus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
12¾	...	6½	... ...	Rowland Ward's Collection.
12⅝	5	5¼	... ...	W. D. James.
12½	5½	4½	South Africa ...	J. A. Nicoll.
12	4⅜	4⅝	Do. ...	F. C. Selous.
11¾	5	6⅜	East Africa ...	Sir Robert Harvey, Bart.
11½	(owner's measurement)	4	Do. ...	Sir John Willoughby, Bart.
11½	5¼	3⅝	... ...	H.R.H. Duke of Edinburgh.
11½	4⅞	4½	South Africa ...	A. Beit.
11¼	4⅜	4½	East Africa ...	F. J. Jackson.
11	5⅛	5	... ...	Col. Ralph Vivian.
10⅞	5	3½	... ...	J. Carr-Saunders.

HARNESSED ANTELOPE (Tragelaphus scriptus).

Habitat—South and East Africa.

Length along the bend.	Circumference.	Tip to Tip.	Habitat.	Owner.
17⅞	6¼	5⅞	Zanzibar	Sir John Kirk, M.D., K.C.B.
16⅝	5⅞	6¼	Mandar Island, near Zanzibar.	Do.
15⅜	6⅜	7½	South Africa ...	Maj.-Gen. Arthur Ellis, C.S.I.
15⅜	5½	7⅛	Do. ...	Hon. Charles Ellis.
*13½	5¼	5⅜	Do. ...	British Museum.
14	5½	4⅛	Do. ...	Hon. Charles Ellis.
13½	5⅛	4⅜	Do. ...	Sir John Willoughby, Bart.
13¾	4¾	3½	Mombasa ...	Sir John Kirk, British Museum.
13⅛	5⅛	3½	Lower Zambesi ...	F. C. Selous, British Museum.
12¾	5	4½	South Africa ...	A. E. Capell.
12⅝	5¼	4⅛	Orange River ...	British Museum.
12⅝	4⅝	4⅜	... ...	Do.
*12⅜	5⅛	4⅝	Chobe River ...	F. C. Selous, British Museum.
11¾	5½	6⅝	... ...	Sir Victor Brooke's Collection.
11¾	5⅛	4½	Uganda ...	Capt. Speke, British Museum.
11	4⅝	5⅞	Limpopo River ...	R. Gordon Cumming, British Museum.
10½	4½	2¼	Gambia	Earl Derby, British Museum.

* The above are Banded Bushbuck.

SITUTUNGA ANTELOPE (Tragelaphus spekei).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1871, p. 485.]

HAIR of sides coarse and long, without stripes; hoofs long; general colour rusty brown; neck maned; horns smooth, slender, strongly keeled; hair of sides and body of uniform length.

Native name—"Nakong."

Habitat—Central and Southern Central Africa.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round curve.	Straight lines.				
32⅝	27	7½	16⅜	... ...	F. C. Selous.
31⅞	25¾	8⅛	17¼	... ...	Do.
31½	24⅜	7	16⅛	Chobe River, Mashuna Land.	British Museum.
...	25	...	...	... ...	F. C. Selous, "A Hunter's Wanderings."
29⅝	24½	8⅛	16⅜	... ...	F. C. Selous.
28	23¾	7¾	19⅞	... ...	W. C. Oswell.
27	21¾	6⅞	12	... ...	The late J. S. Jameson.
26	...	7⅜	8⅞	... ...	Hon. Charles Ellis.
26	22⅝	7	17½	... ...	Sir Victor Brooke's Collection.
26	20⅞	6⅞	16	... ...	W. C. Oswell.

SITUTUNGA ANTELOPE (Tragelaphus spekei)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round curve.	Straight lines.				
...	22½	7½	10	... ...	Rowland Ward's Collection.
25⅞	22¼	7¼	19⅜	... ...	F. C. Selous, British Museum.
25½	...	8	12	... ...	J. A. Nicoll.
...	22	...	...	Chobe River, Mashuna Land.	F. C. Selous, "A Hunter's Wanderings."
23⅝	...	7¼	10	... ...	Major Gould Adams.
23½	...	7¼	7⅛	... ...	Hon. Charles Ellis.
20	...	6½	9⅜	Zambesi ...	British Museum.

(Tragelaphus gratus).

Habitat—West Africa.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight line.	Round curve.				
19	...	...	...	Gaboon	British Museum.
18	23½	7⅞	11¾	Do.	Sir Victor Brooke's Collection.

INYALA (Tragelaphus angasi).

[G. F. ANGAS, P.Z.S. 1848, p. 89.]

THIS brilliant Antelope, the Inyala of the Amazulu, appears to be a link between the Koodos and Boshbok, uniting in itself the markings and characteristic features of both these animals. The adult male is about 7 ft. 6 in. in total length, and 3 ft. 4 in. high at the shoulder. Though elegant in form, and much of the grace of the solitary Koodos, the robust and shaggy aspect of the male bears considerable resemblance to that of the Goat. Legs clean; hoofs pointed and black, with two oval cream-coloured spots in front of each fetlock, immediately above the hoof; horns 1 ft. 10 in. long, twisted and sublyrate, very similar to those of the Boshbok, but rather more spiral; have polished extremities of a pale straw colour; rest of horns brownish-black, deeply ridged from the forehead to about half the length of the horn; prevailing colour greyish-black, tinged with purplish-brown and ochre; on the neck, flanks, and cheeks, marked with several white stripes like the Koodos; forehead brilliant sienna-brown, almost approaching to orange; mane black down the back and white from the withers to the insertion of the tail; ears 8 in. long, oval, rufous, tipped with black and fringed inside with white hairs; a pale ochreous circle round the eyes, which are connected by two white spots forming an arrow-shaped mark on a black ground; nose black; a white spot on each side of the upper lip; chin and gullet white; and three white marks under each eye; neck covered with long shaggy hair, extending also under the belly and fringing the haunches to the knees; two white spots on the flanks, and a patch of long white hair on the anterior portion of the thigh; a white tuft under the belly and another on the dewlap; on the outer side of the fore-legs is a black patch above the knee surrounded by three white spots; legs below the knee bright rufous colour; tail 1 ft. 8 in. long, black above, with tip and inside white.

Female smaller and without horns.

The young resembles the female, but is rather paler in colour, and has more white spots on the flanks and sides.

Inhabits the lower undulating hills, scattered with Mimosa bushes, that border upon the northern shores of St. Lucia Bay, in the Zulu country, lat. 28° south. Found in small troops of eight or ten together, feeding amongst the thickets.

INYALA (Tragelaphus angasi)—*continued.*

Habitat—South-East Africa and Zulu Country.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round curve.	Straight.				
28	...	8⅛	10⅛	South Africa ...	British Museum.
27⅝	22½	7⅞	9½	Do. ...	Sir Victor Brooke's Collection.
27⅜	...	8⅛	10⅛	Do. ...	Sir Edmund G. Loder, Bart.
26¾	22	7¾	12¼	Do. ...	Sir Victor Brooke's Collection.
26¼	22	6⅞	11⅝	Do. ...	F. C. Selous.
23	...	7	5⅝	Zulu Country ...	R. S. Fellowes, British Museum.
22	...	...	...	... ...	Angas, P.Z.S. 1848, p. 89.

TRAGELAPHUS EURYCEROS.

[Sir VICTOR BROOKE, Bart., P.Z.S. 1871, p. 485.]

HAIR of sides smooth and short, striped with white bands, descending from a white dorsal streak; hoofs short; general colour deep chestnut; stripes strongly marked, numerous; horns smooth, massive; neck, back, and belly maneless; tail bovine; fore limbs with dark markings anteriorly.

Habitat—West Africa.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
On curve.	Straight.				
31¾	26½	9¾	12⅜	... ...	Sir Victor Brooke's Collection.
30¾	24⅞	10⅞	12¾	West Africa ...	Do.
30	24⅛	9⅝	11¼	Ashkanholoo Mountains.	British Museum.
29½	25⅞	9¾	10⅛	... ...	P. Du Chaillu, British Museum.
27⅝	23¾	10⅛	10⅝	Fantee	Do.
...	19⅞	8	6⅝	Gaboon	Do.

GREATER KOODOO (Strepsiceros kudu).

Somali name—"Godir."

Schuana name—"Tolo."

Lower Zambesi name—"Goma."

Habitat—North, East, and South Africa.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight line.	Round curve.				
45⅜	60⅝	11½	33	South Africa ...	F. C. Selous.
45⅛	55⅞	11¼	37⅛	Do. ...	W. C. Oswell.
44⅞	57¼	11¾	34⅜	Africa	Sir Edmund G. Loder, Bart.
44¼	59	10¼	26	South Africa ...	The late J. S. Jameson.
44¼	56¼	11⅜	33¼	Do. ...	Hon. Walter Rothschild.

GREATER KOODOO (Strepsiceros kudu)—*continued.*

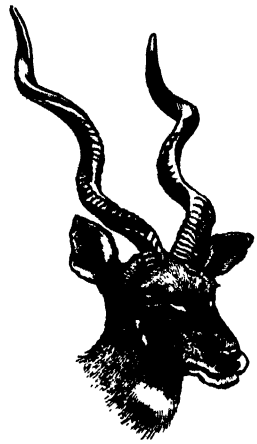
Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight line.	Round curve.				
43⅞	61¼	10⅝	29	South Africa ...	Rowland Ward's Collection.
43⅝	55½	10	44⅞	Do. ...	W. C. Oswell.
43½	54½	11½	33¾	Do. ...	Hon. Walter Rothschild.
43	57⅛	11⅝	34¾	Do. ...	H. and C. Beddington.
43	56½	10¼	29	Do. ...	C. Ansell.
43	56	10¾	43	Do. ...	F. C. Selous.
43	55	11½	25	Do. ...	Hon. Walter Rothschild.
42¾	54⅛	11⅝	33⅜	Do. ...	A. Beit.
42⅝	56½	10⅜	38¾	Do. ...	Sir Victor Brooke's Collection.
42½	58½	11	31⅛ (owner's measurement)	Africa ...	Edmund Smith.
42½	53	11½	30	South Africa ...	A. W. Davies.
42½	50	11½	32	Africa ...	Major Gould Adams.
42	54	11	45	Do. ...	E. R. Thompson.
41⅞	52⅛	10¾	39⅝	Do. ...	Hon. Charles Ellis.
41½	57	9¾	31½	South Africa ...	James Greenlees.
41⅛	55¾	10⅛	24⅜	Do. ...	F. C. Selous.
41	64	...	...	Mashuna Land	F. C. Selous, "A Hunter's Wanderings."
41	57¾	9¾	24¾	South Africa ...	G. H. Banks.
41	56½	10¼	28½	Do. ...	C. Ansell.
41	53⅝	10	25	Do. ...	J. A. Jameson.
40⅞	53½	10	33⅛	Do. ...	The late J. S. Jameson.
40¾	62	10⅜	23½	Do. ...	F. C. Selous.
40⅝	49⅞	11½	35⅜	Do. ...	H. and C. Beddington.
40½	51	10¼	28⅝	Do. ...	A. Beit.
40½	50	11¾	29½	Do. ...	Rowland Ward's Collection.
40¼	52⅜	10	36½	Do. ...	Maj-Gen. Arthur Ellis, C.S.I.

GREATER KOODOO (Strepsiceros kudu)—*continued.*

Length.		Circumference	Tip to Tip.	Habitat.	Owner.
Straight line.	Round curve.				
40¼	50½	10⅛	39⅛	South Africa ...	H. Atkinson.
40	52⅞	10⅛	37	Delagoa Bay ...	Sir John Kirk, M.D., K.C.B.
40	52⅜	9⅞	27¼	South Africa ...	Bethnal Green Museum.
40	52⅜	9¾	28⅜	Do. ...	F. J. Horniman.
39⅞	49⅞	10⅞	40½	Do. ...	R. M. Sagar Musgrave.
39¾	54⅛	11½	23⅜	Do. ...	The late J. S. Jameson.
39¾	51½	10¼	28⅝	Do. ...	W. P. Rylands.
39¾	50½	10½	35	Do. ...	Hon. Charles Ellis.
39⅝	51⅛	11¼	31½	Do. ...	W. P. Rylands.
39½	52¾	10¾	18¼	Do. ...	Do.
39¼	53½	10	31⅛	Africa	Sir Victor Brooke's Collection.
39¼	48½	10½	39½	South Africa ...	R. C. Dobson.
39	53½	11	27¼	Do. ...	Rowland Ward's Collection.
39	52	9½	33	Do. ...	E. R. Thompson.
39	50¾	10¾	27⅝	Do. ...	Maj.-Gen. Arthur Ellis, C.S.I.
38¾	51⅛	10¼	28⅝	Do. ...	A. Beit.
38½	50¼	8½	29½	Africa	F. L. James, 1880.
38¼	51¼	10	20½	South Africa ...	J. Carr-Saunders.
38	54⅞	10	18⅛	Do. ...	F. C. Selous.
38	49	8⅞	29⅜	Somali Land ...	C. Liddell.
38	48⅞	9⅜	36¾	South Africa ...	G. H. Banks.
38	...	11	33½	Do. ...	Lieut. C. F. Gisborne.
38	48	10½	36	Do. ...	J. A. Nicoll.
37½	53⅝	9¾	25⅜	Do. ...	Maj.-Gen. Arthur Ellis, C.S.I.
37½	52⅛	9¼	23½	Somali Land ...	T. W. H. Clarke.
37⅛	47¼	10¼	35½	South Africa ...	H.R.H. Duke of Edinburgh.

GREATER KOODOO (Strepsiceros kudu)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight line.	Round curve.				
37	53½	9⅝	23	Somali Land ...	E Lort-Phillips.
37	49½	11	20	Do. ...	A. Haggard.
37	49½	9¼	22¼	South Africa ...	F. C. Selous.
36⅝	50½	9⅛	34	Somali ...	E. Lort-Phillips.
36½	47½	10¼	27⅝	South Africa ...	British Museum.
36	56½	11	33½	Do. ...	M. S. Runcheman.
36	48⅝	10⅜	31½	Do. ...	British Museum.
36	46¼	9¾	25	Africa ...	R. Farrow.
35¾	47⅞	9⅞	24⅝	Somali ...	A. H. Straker.
35½	47	9¼	33⅝	Africa ... ... (killed by a lion)	F. L. James.
35⅛	47⅛	10	30⅛	South Africa ...	British Museum.
35	48¼	9¾	27	Somali ...	Lieut. Merewether.
35	47½	8¾	38⅜	Soudan ...	Col. Ralph Vivian.
35	45	9⅜	32⅛	West Africa ...	Capt. F. Cookson.
34⅞	46¾	10¼	21¼	South Africa ...	British Museum.
34½	46½	9½	...	Abyssinia ...	Do.
34½	44	9⅝	21⅜	South Africa ...	G. H. Banks.
...	44	10	31	Kaoko Land, West Africa.	Capt. F. Cookson.
...	44	9	...	North Africa ...	Capt. Brinkley.
...	43½	10½	29	West Africa ...	Capt. F. Cookson.
34⅜	45⅜	10⅛	25⅝	South Africa ...	British Museum.
33¾	46½	9½	24½	Somali Land ...	Capt. H. G. C. Swayne.
33½	42¼	9¾	28½	West Africa ...	Capt. F. Cookson.
...	42	...	...	North Africa ...	Capt. Brinkley.
31½	41⅛	8¾	28¼	Abyssinia ...	British Museum.
28¼	37⅝	8¼	31	Do. ...	Do.



LESSER KOODOO (Strepsiceros imberbis).

Somali name—" Anderio."

Habitat—Africa: Somali Land to Masai Land.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight line.	Round Curve.				
25½	30⅝	6⅜	11⅛	Somali Land	A. H. Straker.
25¼	31½	6⅜	11⅝	Do.	Sir John Kirk, M.D., K.C.B.
24½	31¼	6¾	14½	Do.	Capt. H. G. C. Swayne.
24½	...	6⅛	14¼	Do.	Rowland Ward's Collection.
24⅜	30¾	6⅝	11⅞	Do.	W. D. James.
24	30¾	6⅞	9	Do.	E. P. Hare.
24	30½	6½	12	Do.	T. W. H. Clarke.
24	...	(owner's measurement)	...	...	Bombay Natural History Society.
23½	29	6½	11⅛	East Africa ...	Sir Robert Harvey, Bart.
...	29	...	12	Somali Land	Ernest Horn.

LESSER KOODOO (Strepsiceros imberbis)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight Line.	Round Curve.				
23	...	6¾	10¾	Somali Land	Col. Arthur Paget.
23	28⅛	5½	11⅝	Do.	Sir John Kirk, British Museum.
22⅞	29⅜	6⅛	14⅛	Do.	Lord Delamere.
22¼	28⅞	6¼	15¼	Do.	Do.
22¼	29⅜	6⅜	13⅝	Do.	E. Lort-Phillips.
22⅛	28¼	5¾	13⅛	Do.	J. Carr-Saunders.
22⅛	26⅞	5½	12¾	South Somali Land.	Sir John Kirk, M.D., K.C.B.
22	28	6¾	9½	Somali Land	C. H. Villiers.
21⅞	28⅞	6½	9	East Africa ...	H. C. V. Hunter.
21½	28⅜	6⅝	10⅛	Do.	Sir Robert Harvey, Bart.
21⅝	27¼	6½	12¾	South Somali Land.	Sir John Kirk, M.D., K.C.B.
21⅜	27¼	6⅝	7	Somali Land	Hon. Walter Rothschild.
21	(owner's measurement)	...	...	Do.	J. D. Inverarity.
21	27¼	6½	7	Do.	Rowland Ward's Collection.
20¾	26	6⅜	12⅛	Do.	E. Lort-Phillips.
20½	25	5⅝	12⅛	East Africa ...	H. C. V. Hunter.
20¼	26	6	11¾	Do.	Sir Robert Harvey, Bart.
20	24	6	14	Do.	W. Astor Chanler.
19	23½	5¾	7½	River Juba, Somali.	Sir John Kirk, British Museum.
18⅞	24⅝	5¼	4¾	East Africa ...	Sir Robert Harvey, Bart.
...	24⅛	5⅝	12⅝	Do.	H. C. V. Hunter.
18⅞	22⅞	5¼	12	Somali Land	Sir John Kirk, British Museum.
17⅝	21⅜	5⅜	5⅛	Do.	Sir John Kirk, M.D., K.C.B.
17	...	...	14	Near Lanjora	Sir J. Willoughby, Bt., "East Africa and its Big Game."
15⅛	17⅞	5⅛	11	East Africa ...	F. J. Jackson.

ELAND (Oreas canna).

Do. (Do. derbianus).

Bechuana Name—"Impofu."

Habitat—South, East, and Central Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
*34¼	12⅝	22¾	... ...	Sir Edmund G. Loder, Bart.
34	13½	(owner's measurements)	... ...	F. Coburn.
*34	12¾	...	... ...	J. Carr-Saunders.
*32½	12½	29⅞	Gambia	Earl of Derby, British Museum.
*♀ 32½	9¼	12¾	... ...	Sir Edmund G. Loder, Bart.
*32	13	24½	... ...	Hon. Walter Rothschild.
*31⅞	11⅝	28⅝	Senegambia ...	Earl of Derby, British Museum.
31¾	12¼	22¾	... ...	Hon. Walter Rothschild.

* Oreas derbianus.

ELAND (Oreas canna and Oreas derbianus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
♂31⅝	10¼	25½	East Africa ...	F. J. Jackson.
♀31½	8¼	20⅜	South Africa ...	F. C. Selous.
♂31½	12¾	12½	Mashonaland ...	Do. British Museum.
*31⅛	12	18⅝	... ...	Sir Victor Brooke's Collection.
♂31	13	12	South Africa ...	F. C. Selous.
*30⅞	10¾	26¾	... ...	F. W. Reade, British Museum.
♀30⅞	7⅞	15¾	South Africa ...	F. C. Selous.
♂30¾	12⅜	16⅛	Do. ...	Do.
♂29⅝	11¼	19⅛	Mashonaland ...	Do. British Museum.
♀29⅝	7½	21⅛	South Africa ...	Do.
29⅜	7¾	9⅜	Algoa Bay ...	British Museum.
♀29⅜	6⅝	17⅝	... ...	W. C. Oswell.
29⅛	12½	14⅞	South Africa ...	F. C. Selous.
♂29	...	...	Mashonaland ...	Do. "A Hunter's Wanderings."
29	10¼	21	South Africa ...	Major Gould Adams.
28¼	10½	19½	... ...	Do.
♀28¼	7⅞	13¾	South Africa ...	F. C. Selous.
♂27⅞	12½	20½	Do. ...	Do.
♀27¾	6⅝	12¼	Do. ...	H. Atkinson.
♂27½	10⅛	18⅜	Do. ...	Do.
27½	...	20½	Do. ...	Dr. Knight Bruce (Bishop of Bloomfontein).
♀27	...	10	... ...	Sir John Willoughby, Bart., "East Africa and its Big Game."
27	10½	18¾	... ...	R. C. Dobson.
27	8⅛	12⅝	South Africa ...	The late J. S. Jameson.
27	11½	18¼	... ...	Rowland Ward's Collection.
27	...	...	Mashonaland ...	F. C. Selous, "A Hunter's Wanderings."

* Oreas derbianus.

ELAND (Oreas canna and Oreas derbianus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
26⅞	10½	17¾	South Africa ...	The late J. S. Jameson.
26¾	10	19½	... ...	H.R.H. Duke of Edinburgh.
26⅝	7⅝	18	South Africa ...	The late J. S. Jameson.
26½	12¼	12⅜	Do. ...	F. C. Selous.
26⅜	8⅜	15¾	Mashonaland ...	Do. British Museum.
♀26¼	7⅜	19¾	... ...	Earl of Derby, British Museum.
♀26	8¼	10⅛	West Africa ...	Capt. F. Cookson.
25⅞	11½	12⅞	Mashonaland ...	F. C. Selous, British Museum.
♂25¾	11⅝	14⅛	Do. ...	Do. Do.
25¾	10⅛	12	East Africa ...	H. C. V. Hunter.
25⅝	11½	13½	South Africa ...	J. A. Jameson.
♀25⅝	8⅛	14½	Mashonaland ...	F. C. Selous, British Museum.
25⅝	13	8⅛	South Africa ...	J. A. Jameson.
25½	12	7	Do. ...	A. Beit.
♀25½	7⅝	10¼	Do. ...	Do.
25⅛	9⅞	16⅛	East Africa ...	H. C. V. Hunter.
♀25⅛	6¼	9⅛	Do. ...	Sir Robert Harvey, Bart.
♀25	7	14½	South Africa ...	A. W. Davis.
24⅝	10⅛	13	Do. ...	The Hon. Charles Ellis.
24½	11	15	... ...	J. A. Nicoll.
24½	6⅜	10½	East Africa ...	H. C. V. Hunter.
24⅜	6¼	15⅛	Do. ...	F. J. Jackson.
24¼	12¾	13	Mashonaland ...	F. C. Selous, British Museum.
*24¼	9	6¼	Senegambia ...	F. W. Reade, British Museum.
♀24⅛	6¼	2	... ...	Sir Victor Brooke's Collection.
24	7½	12	East Africa ...	Gen. Matthews.

* Oreas derbianus.

ELAND (Oreas canna and Oreas derbianus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
24	...	12½	East Africa ...	H. C. V. Hunter.
♂24	...	12	Do. ...	Sir John Willoughby, Bart., "East Africa and its Big Game."
♂23⅞	9⅛	12¼	Do. ...	Sir Robert Harvey, Bart.
23¾	10¼	13½	... ...	W. C. Oswell.
23⅝	7⅛	11¼	East Africa ...	H. C. V. Hunter.
♀23½	6½	9½	Do. ...	Sir Robert Harvey, Bart.
23½	10½	11	Do. ...	Prince Boris Czetwertynski.
23½	7¼	17⅛	Do. ...	Sir John Kirk, M.D., K.C.B.
23½	10¾	11	South Africa ...	H. and C. Beddington.
23⅜	9¼	12⅜	Do. ...	Bethnal Green Museum.
♀23¼	6⅜	6⅝	East Africa ...	Sir Robert Harvey, Bart.
♂23⅛	10⅞	12½	... ...	Sir Edmund G. Loder, Bart.
23	10	10	East Africa ...	Prince Stargynski.
♂22¾	9⅞	9¼	Do. ...	F. J. Jackson.
22¾	6¾	12	South Africa ...	British Museum.
22	9⅞	10¾	... ...	The Hon. Walter Rothschild.
♀22	5¾	12¾	... ...	Sir Edmund G. Loder, Bart.
22	6⅜	10	East Africa ...	F. J. Jackson.
20¾	11⅜	10¼	South Africa ...	The late J. S. Jameson.
19⅝	11⅞	12¼	... ...	Earl of Derby, British Museum.

* Oreas derbianus.

CHAMOIS (Rupicapra tragus).

Habitat—Mountains of Europe, from the Pyrenees to Caucasus.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
10¼	3½	5¼	... ...	E. N. Buxton.
10¼	4⅛	3⅞	Caucasus ...	Sir Edmund G. Loder, Bart.
9⅞	3¼	4¼	... ...	H.R.H. Duke of Edinburgh.
*9¾	3½	5⅛	... ...	H.I. and R.H. Crown Prince Rudolph of Austria, British Museum.
*9¾	3¼	3⅞	Transylvania ...	C. G. Danford, British Museum.
9⅝	3¼	4½	Caucasus ...	St. George Littledale, 1891.
9⅝	3¾	4¾	Piz Diavel ...	E. N. Buxton, 1876.
9⅝	3⅝	4	... ...	Capt. Townley Parker.
9⅝	3	3⅝	... ...	The Hon. Walter Rothschild.
*9⅝	3½	3½	Tyrol	H.I. and R.H. Crown Prince Rudolph of Austria, British Museum.
9⅜	3¼	2⅝	... ...	J. Carr-Saunders.
9¼	2½	4	Alps	Gen. Hardwicke, British Museum.
9⅛	3⅜	3⅞	... ...	H.R.H. Duke of Edinburgh.
9⅛	2¾	4¼	... ...	Do.
9	3½	3¾	... ...	W. H. Briggs.
♀ 9	2¾	4½	... ...	Maj.-Gen. Arthur Ellis, C.S.I.
8¾	3⅜	4⅛	... ...	Do.
8¾	3½	4	... ...	Rowland Ward's Collection.
8¾	3⅜	3	Caucasus ...	St. George Littledale.
8¾ × 5¼	3⅜ × 2¾	4⅛ × 3⅛ (4 horns)	... ...	Capt. Townley Parker.
8¾	3	3⅞	... ...	Gerald Buxton, 1883.
8¾	3½	3⅜	Caucasus ...	St. George Littledale.

* Rupicapra vulgaris.

CHAMOIS (Rupicapra tragus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
8¾	2⅞	21	... ...	The Hon. Walter Rothschild.
8⅝	3¾	3¾	... ...	E. W. Reegan.
8⅝	3½	2⅜	Caucasus ...	St. George Littledale, 1891.
8½	2½	3⅞	Do. ...	Do. 1887.
*8½	2⅝	4	Alps	J. Gould, British Museum.
♀ 8⅜	2¼	4⅜	Pyrenees ...	Sir Victor Brooke's Collection.
8⅜	3	3¾	... ...	British Museum.
8⅜	3⅛	3⅛	Caucasus ...	St. George Littledale, 1887.
8¼	3⅜	2¾	Do. ...	Do. 1891.
8¼	2⅞	4	... ...	H.R.H. Duke of Edinburgh.
8¼	3⅜	3⅛	Alps	Gen. Hardwicke, British Museum.
♀ 8⅛	2⅝	4⅞	... ...	Maj.-Gen. Arthur Ellis, C.S.I.
8⅛	2⅞	3½	... ...	E. N. Buxton.
♀ 8⅛	3	2	Caucasus ...	St. George Littledale, 1887.
8⅛	3¼	3⅜	Do. ...	Do. 1886.
♀ 8	2½	3	... ...	Maj.-Gen. Arthur Ellis, C.S.I
8	3⅜	2⅞	Caucasus ...	St. George Littledale, 1887.
♀ 8	2¾	3⅜	Do. ...	Do. 1886.
7⅞	3½	1⅝	Do. ...	Do. 1891.
7¾	3⅜	3½	Do. ...	Do. 1887.
7¾	2¾	3⅝	... ...	E. N. Buxton, 1883.
7¾	2⅞	3	Alps	Dr. J. E. Gray, British Museum.
♀ 7¾	2¾	3⅞	Caucasus ...	St. George Littledale, 1887.
♀ 7⅝	2⅞	2⅜	Do. ...	Do. 1887.
*7½	2¾	2⅞	Do. ...	British Museum.
7½	3⅜	3½	Do. ...	St. George Littledale, 1887.

* Rupicapra vulgaris.

CHAMOIS (Rupicapra tragus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
♀ 7½	2¾	5	Caucasus ...	St. George Littledale, 1891.
♀ 7⅜	2⅞	3½	Do. ...	Do. 1887.
7¼	3⅜	3⅜	Pyrenees ...	British Museum.
7¼	2⅝	1⅝	Especieres ...	E. N. Buxton, 1882.
7	2⅝	2	Alps	Gen. Hardwicke, British Museum.
♀ 7	2⅜	3½	Pyrenees ...	Sir Victor Brooke's Collection.
6⅞	3¼	2⅛	Alps	Dr. J. E. Gray, British Museum.
♀ 6⅞	2⅝	2¾	Caucasus ...	St. George Littledale, British Museum.
6¾	3⅛	2⅛	Alps	Dr. J. E. Gray, British Museum.
♀ 6½	2⅛	3⅝	Pyrenees ...	Sir Victor Brooke's Collection.
♀ 6	2¾	3⅛	Caucasus ...	St. George Littledale, 1886.
6	2⅝	2⅝	... ...	Sir Victor Brooke's Collection.

GOORAL or HIMALAYAN CHAMOIS (Nemorhœdus goral).

Habitat—Himalayas, from Bhotan and Sikim to Kashmir.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
7⅝	3¾	3½	India	Hume Collection, British Museum
7	3¾	2¾	Do.	Capt. J. A. Orr-Ewing.
7	3½	2⅞	Do.	J. M. Nicolls.
6¾	3½	1	Do.	Capt. G. Campbell.
6⅝	3½	2⅛	Do.	Hume Collection, British Museum.
6⅜	3⅛	2⅞	Do.	J. Carr-Saunders.
6¼	3⅜	3½	Do.	Sir Victor Brooke's Collection.

GOORAL or HIMALAYAN CHAMOIS (Nemorhœdus goral)-*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
*6¼	4	3½	North Mongolia	Messrs. Dorries, British Museum.
6	2⅝	1	... ...	Hume Collection, British Museum.
6	...	...	... ...	B. H. Hodgson, P.Z.S. 1834.
5⅞	3½	2¾	Kussowlie, North India.	Sir Victor Brooke's Collection.
5¾	2½	2	... ...	Do.
5⅝	3⅝	2½	... ...	H. F. Campbell.
5¼	3⅛	2¾	Nepal	British Museum.
5⅛	3⅜	3	Do.	Do.
*4¾	3⅜	1½	Pekin	F. W. Styer, British Museum.
*4⅝	3	2	North China ...	British Museum.
4½	3⅛	2½	Kussowlie, North India.	Sir Victor Brooke's Collection.

* Long-tailed Gooral.

JAPANESE GOORAL (Nemorhœdus crispus).

Habitat—Japan.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
5¼	3⅛	3⅛	Japan	British Museum.

SUMATRAN SEROW (Nemorhœdus sumatrensis).

Native name—"Cambing-Utan."

Habitat—Sumatra.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
9	5	2	Sumatra ...	Hume Collection, British Museum.
8¾	5¼	4½	... ...	Do.
8⅜	4⅞	4¼	... ...	Do.
8⅛	5½	4⅛	... ...	Do.
8⅛	4⅞	3¼	... ...	Do.
8	5	3⅞	... ...	Do.
7⅞	5⅛	2¾	... ...	Do.
7¾	4⅝	3⅛	... ...	Do.
7⅛	4½	4⅛	... ...	Do.
7	4¾	1⅞	... ...	Do.
6½	4⅝	3½	... ...	Do.
6½	4½	2⅝	... ...	Do.
5⅞	3¾	3⅝	Moutmein, Tenasserion.	Lieut. R. C. Beavan, British Museum.
5¾	4¼	4	... ...	Hume Collection, British Museum.
5	4⅛	3¼	... ...	Do.
4⅝	3¼	3⅞	... ...	British Museum.

HIMALAYAN SEROW or FOREST GOAT (Nemorhœdus bubalinus).

Habitat—Himalayas, from Kashmir to Sikim.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
10½	5⅜	3½	... ...	Hon. Charles Ellis.
9⅞	5⅝	4½	... ...	Sir Victor Brooke's Collection.
9¾	5⅛	6	Pir Punjal ...	R. Lydekker, British Museum.
9½	5⅝	4¾	Kashmir ...	St. George Littledale, 1877.
9½	4⅞	3¼	Nepal	B. H. Hodgson, British Museum.
9¼	4½	3¾	... ...	Hume Collection, British Museum.
9⅛	5¼	5½	... ...	Do.
8⅞	5¼	5¾	... ...	Do.
8	4¾	4¾	Near Darjeeling	R. Lydekker, British Museum.
8	4½	4⅜	Nepal	B. H. Hodgson, British Museum.
7⅞	4⅝	4½	Do.	Do.
7¾	5	4¼	... ...	Hume Collection, British Museum.
*6½	3¼	2⅜	Ichang	P. Montgomery, British Museum.

* Nemorhœdus cinereus.

ROCKY-MOUNTAIN GOAT (Haploceros montanus).

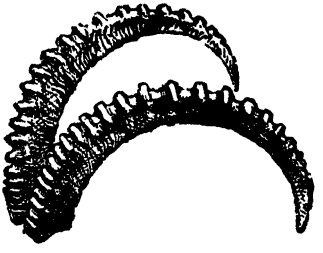
Habitat—North America.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
10⅛	6½	(owner's measurement)	North America ...	Arthur Pearse.
10⅛	5	6⅛	Do. ...	E. N. Buxton.
10	5⅜	5	Do. ...	J. C. L. Knight-Bruce.
9½	5½	6¼	Do. ...	St. George Littledale.
9½	4¼	...	Do. ...	J. D. Cobbold.
9⅜	5¼	6½	Do. ...	J. C. L. Knight-Bruce.
9¼	5½	...	Do. ...	Earl of Lonsdale.
9⅛	...	6	Montana ...	Thomas Bate, British Museum.
8¾	5	5½	North America ...	St. George Littledale.
8½	5⅛	5¾	Do. ...	J. C. L. Knight-Bruce.
8	5	3⅜	Rocky Mountains	J. K. Lord, British Museum.
8	4⅞	6⅜	North America ...	F. J. Horniman.

TAKIN (Budorcas taxicolor).

Habitat—Northern India.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
22⅜	10⅝	14¾	Assam	British Museum.
20⅞	11⅜	11⅞	India	Hume Collection, British Museum.
20¾	11⅞	12½	Do.	A. O. Hume, Private Collection.
20¾	9⅝	13⅜	Do.	Hume Collection, British Museum.
20½	10⅞	12⅜	Nepal	B. H. Hodgson, British Museum.
19⅜	11	15	India	Sir Edmund G. Loder, Bart.
18	10¼	8	Do.	British Museum.
16⅛	8¾	10¾	Do.	Do.
15¼	9⅜	5¾	Mishmi Mountains	B. H. Hodgson, British Museum.
14⅜	8¾	8⅞	Upper Assam ...	Lieut.-Col. Graham.



HIMALAYAN IBEX (Capra sibirica).

Habitat—Himalayas from Kashmir to Nepal, and northwards to Turkestan.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
51½	(owner's measurement)	...	Kashmir ...	Martyn Kennard.
51¼	10½	16	India	Blyth, P.Z.S. 1840, p. 80.
51	9⅛	28½	Do.	Sir Victor Brooke's Collection.
50	9	...	... ...	Capt. John Brickley.
49¾	10⅜	25¼	India	Sir Edmund G. Loder, Bart.
49½	10⅛	42	Kashmir ...	Martyn Kennard, 1887.
48½	9⅝	30½	India	A. O. Hume, Private Collection.
47⅞	9⅛	20⅜	Do.	Do.
47½	10¼	20	Do.	Rowland Ward's Collection.
47	11¾	...	... ...	Carl Hagenback.
47	10½	29¾	Kashmir ...	Martyn Kennard.
47	10	...	India	Manners Smith.
46¾	10½	24¼	Dangloongma ...	Martyn Kennard, 1888.
46½	11	24¾	India	Hon. Charles Ellis.
46⅛	10¼	20	Kashmir ...	Martyn Kennard.
46	10¾	25	India	Col. G. Jackson, 1867.
46	9¾	25	Do.	Sir Victor Brooke's Collection.

HIMALAYAN IBEX (Capra sibirica)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
45⅝	9	9⅜	Kashmir ...	Martyn Kennard.
45½	10½	15¼	Do.	Do.
45½	9½	...	India	Capt. Townley Parker.
45⅜	9½	22¼	Kashmir ...	Martyn Kennard.
45	11	36	India	Col. G. Jackson, 1867.
44⅝	10¾	30	Do.	A. O. Hume, Private Collection.
44½	11¾	26	Do.	Capt. Orr-Ewing.
43¾	11½	16	Do.	J. Carr-Saunders.
43¾	10¼	25⅛	Kashmir ...	Martyn Kennard.
43⅝	10¼	24¾	India	Sir Robert Harvey, Bart.
43½	9¾	19	Do.	Hume Collection, British Museum.
43½	(owner's measurement)	...	Do.	Capt. A. A. Kinloch (his book).
43¼	10⅛	27⅛	Kashmir ...	Martyn Kennard.
43	12½	35½	India	T. W. H. Greenfield.
43	...	...	Do.	Lewis Flower.
42⅞	11⅛	25¾	Do.	A. O. Hume, Private Collection.
42⅞	10½	...	Do.	H. C. V. Hunter.
42⅞	10⅜	20¾	Do.	Sir Robert Harvey, Bart.
42¾	9⅛	25⅜	Do.	Do.
42½	9½	20	Do.	J. D. Cobbold.
42⅛	9⅝	20⅞	Kashmir ...	Martyn Kennard.
42	6½	27	India	Capt. Townley Parker.
41⅞	10⅛	20½	Kashmir ...	Martyn Kennard.
41⅝	10¾	22¼	Do.	Do.
41⅝	10	21⅛	Do.	Do.
41½	10½	23½	India	C. Spedding.
41½	9⅝	17¾	Kashmir ...	Martyn Kennard.
41⅜	10¼	20⅜	Do.	Do.

HIMALAYAN IBEX (Capra sibirica)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
41¼	9½	33⅛	Kashmir ...	Martyn Kennard.
41⅛	10½	12⅝	Do.	Do.
41	(owner's measurement)	...	India	Capt. A. A. Kinloch.
41	10	26¾	Kashmir ...	Martyn Kennard.
40⅝	10¾	33¾	India	Sir Edmund G. Loder, Bart.
40½	11¼	21½	Do.	Hon. Charles Ellis.
40½	10	22⅛	Kashmir ...	Martyn Kennard.
40½	9⅞	22¾	India	Sir Robert Harvey, Bart.
40⅛	8½	25⅜	Kashmir ...	Martyn Kennard.
40	10¼	17¾	Do.	Do.
40	10	27	India	W. F. Templer.
40	9¾	18¾	Do.	Sir Robert Harvey, Bart.
40	8¾	23	Do.	Hume Collection, British Museum.
39⅞	10⅝	24⅝	Jay Nai Valley, Kashmir.	British Museum.
39⅞	10½	18⅝	Kashmir ...	Martyn Kennard.
39⅝	9⅞	13¼	... ...	Reginald Beech.
39⅝	9	21⅛	Mongolia ...	St. George Littledale.
39½	9⅞	17½	Himalayas ...	Sir Victor Brooke's Collection.
39½	9½	22½	Ladak	Capt. Strachey, British Museum.
39½	8⅜	26	Kashmir ...	Martyn Kennard.
39¼	9⅞	15½	Do.	Do.
39¼	9⅜	24½	Astor	Sir Victor Brooke's Collection, 1875.
39	9½	14¼	India	Hume Collection, British Museum.
39	9	25⅞	Kashmir ...	Martyn Kennard.
38⅞	8⅞	...	India	F. Morrice.
38¾	9⅞	30¼	Do.	Sir Robert Harvey, Bart.
38⅝	10⅛	30⅛	Himalayas ...	Capt. Townley Parker.
38½	10	25½	India	Capt. M. Murphy.

HIMALAYAN IBEX (Capra sibirica)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
38½	9⅜	15⅞	Yarkund ...	Dr. Bellew, British Museum.
38½	9	24½	India	Rowland Ward's Collection.
38⅜	9½	18¾	Kashmir ...	R. Lydekker, British Museum.
38¼	10⅜	22½	India	Hon. Walter Rothschild.
37⅞	10⅞	22¾	Do.	British Museum.
37⅞	10¼	15⅞	Kashmir ...	Martyn Kennard.
37¾	10⅜	24¼	India	H. R. H. Duke of Edinburgh.
37⅝	11⅛	27¾	Do.	Bethnal Green Museum.
37⅝	10	12⅛	Do.	Reginald Beech.
37⅝	9⅝	18½	Kashmir ...	Martyn Kennard.
37½	10	17⅞	India	Sir Robert Harvey, Bart.
37⅜	9¼	23	Do.	Hume Collection, British Museum.
37¼	10⅛	18⅜	Kashmir ...	Martyn Kennard.
37⅛	8¾	13½	Do.	St. George Littledale.
36⅞	9½	30¾	India	British Museum.
36¾	11¼	24	Kashmir ...	Sir Victor Brooke's Collection.
36¾	9¼	26	India	Hume Collection, British Museum.
36⅝	9⅛	22½	Kashmir ...	St. George Littledale, 1877.
36⅝	9⅛	13⅜	India	H. C. V. Hunter.
36½	9½	27½	Do.	J. Carr-Saunders.
36½	9⅛	20⅞	Do.	Hume Collection, British Museum.
36⅜	9⅜	17¾	Kashmir ...	Martyn Kennard.
36⅜	9⅛	23	Do.	St. George Littledale.
36⅜	9⅜	13¼	India	H. de Burgh.
36⅜	8⅞	21½	Do.	F. J. Jackson.
36⅛	8⅞	13½	Do.	H. de Burgh.
36⅛	9⅛	24¾	Kashmir ...	Martyn Kennard.
36	10⅜	18½	India	Hume Collection, British Museum.

HIMALAYAN IBEX (Capra sibirica)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
35¾	8⅝	17⅛	Kashmir ...	R. Lydekker, British Museum.
35½	10½	23	India	Capt. M. Murphy.
35⅜	9⅞	20	Do.	British Museum.
35¼	9½	8½	Kashmir ...	Martyn Kennard.
35⅛	9	11	Saar Mountains, Altai.	St. George Littledale, British Museum.
35	...	...	India	Major Lloyd Dickson.
35	11⅛	17⅞	Himalayas ...	British Museum.
34½	10½	...	India	Rowland Ward's Collection.
34½	9⅜	11¾	Kashmir ...	St. George Littledale, 1877.
34½	8⅝	10¾	India	British Museum.
33⅝	8⅝	13¾	Kashmir ...	St. George Littledale.
33⅜	9¾	28½	Do.	St. George Littledale, 1877.
33⅜	9⅝	14¼	India	Hume Collection, British Museum.
33	9	20¼	Kashmir ...	St. George Littledale.
33	...	...	India	Major Lloyd Dickson.
32⅞	10⅛	13¼	Do.	Hume Collection, British Museum.
32½	9½	26½	Do.	Capt. G. Campbell.
32½	9⅜	10⅛	Thian Shan, Central Asia.	British Museum.
30⅞	8¼	30½	India	Hume Collection, British Museum.
30⅞	7⅝	13⅝	Siberia	British Museum.
30⅝	9⅜	17⅝	India	F. J. Jackson.
29	8⅞	(malformed)	Kashmir ...	Martyn Kennard.
28⅞	9⅞	14⅞	India	F. J. Jackson.
28½	8⅛	10	Siberia	British Museum.
25⅝	7⅜	15½	India	Do.
23¼	8½	10½	Do.	Gwynne Griffiths.
18⅜	8	9⅞	Do.	Hume Collection, British Museum.
12½	4⅞	8½	Do.	British Museum.

CAUCASIAN IBEX (Capra caucasica).

Habitat—Caucasus.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.	
40⅛	12⅝	15¼	Caucasus ...	St. George Littledale.	
36⅞	11⅝	27⅝	Do. ...	Do.	
34¾	11⅝	22⅞	Do. ...	Do.	1891.
33¼	10⅝	26¾	Do. ...	Do.	Do.
33	12¼	22¾	Do. ...	Do.	1887.
32⅞	11	26⅞	Do. ...	Do.	Do.
31⅞	10⅝	20	Do. ...	Do.	Do.
31¼	11½	21½	Do. ...	Do.	Do.
30⅝	11⅜	16⅜	Do. ...	Sir Edmund G. Loder, Bart.	
30¼	11¾	20⅝	Do. ...	St. George Littledale,	1891.
29½	12	22⅛	Do. ...	Do.	1887.
29¼	11⅛	20⅛	Do. ...	Do.	Do.
*22¾	10⅞	22¼	Do. ...	Do.	1886.
19⅞	10⅝	16¼	Do. ...	P. A. Holt, British Museum.	
15	8¾	12⅝	Do. ...	Do.	
9	4⅛	4¼	Do. ...	British Museum.	

* Cross between Capra caucasica and Capra pallasi.

ALPINE IBEX (Capra ibex).

Habitat—Switzerland Alps, Savoy and the Tyrol.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
31¾	9⅛	18⅜	The Alps, Savoy...	Sir Edmund G. Loder, Bart.
26¾	8⅜	22⅛	The Alps ...	British Museum.
21½	8⅝	14⅞	Do. ...	Do.

PYRENEAN IBEX (Capra pyrenaica).

Habitat—Pyrenees, High ranges of Central Spain, Andalusia and Portugal.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
28	9⅛	23⅜	Spain	British Museum.
*27¾	9	25	Do.	Sir Edmund G. Loder, Bart.
27½	10⅜	19½	Pyrenees ...	British Museum.
*25⅝	8½	16⅝	Spain	Hon. Walter Rothschild.
24½	10	14	Val d'Arras ...	E. N. Buxton, 1885.
24⅜	9⅛	18⅞	Do. ...	Do. Do.
*22	7¾	14	Spain	Pablo Larios.
*12½	6⅜	18½	Do.	Do.
†10⅛	7	6	Do.	Professor Owen, British Museum.
♀9¼	5⅜	7⅝	Val d'Arras ...	E. N. Buxton, 1883.
♀9½	5⅜	6¼	Do. ...	Do. Do.

* Capra Hispanica. † Ægoceros pyrenaica.

ARABIAN IBEX (Capra sinaitica).

[Rev. H. B. TRISTRAM on the Mammals of Palestine, P.Z.S., 1866, p. 85.]

THE Syrian Ibex, or Bedeb of the Arabs. Only found in Palestine in the neighbourhood of the Dead Sea, especially about Engedi. Very abundant on the east side in the mountains of Moab, and still more so throughout the Sinaitic peninsula. It formerly extended to the Lebanon, where its teeth have been found in cave-breccia by ourselves and by M. Lartet. (See Bull, *Sve. Geol. de France*, 22, p. 543.) Quite as wild, nimble and wary as the Ibex of the Alps. It drops its kid in March or April, and has but one at a birth. Several young ones were brought to us and reared for some time by hand. The horns of the female are much smaller than those of the male. The flesh is excellent, far superior to that of the Gazelle. The horns are subquadrangular, sharply emarginated at the inner anterior angle, and with from twenty to twenty-four (in fully adult specimens) bold ridges on the front face only.

Habitat—Upper Egypt, Sinaitic Peninsula and Palestine.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
38⅞	7½	12¼	Upper Egypt, Sinaitic Peninsula & Palestine.	Sir Edmund G. Loder, Bart.

WILD GOAT (Capra ægagrus).

Habitat—South-Eastern Europe.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
53	...	(owner's measurement)	Sumbak Hills, Sind.	Col. F. Marston.
52⅜	7⅞	8¾	... ...	A. O. Hume, Private Collection.
48¼	8⅜	13⅞	Caucasus ...	British Museum.
45¼	9½	14⅜	South Asia Minor	Capt. Townley Parker.
44½	8⅞	21⅜	Caucasus ...	British Museum.
44½	8⅝	11	... ...	Hume Collection, British Museum.
43½	8⅛	22⅜	... ...	J. Carr-Saunders.
43⅜	8⅜	14⅝	... ...	A. O. Hume, Private Collection.
43	9	15¾	Taurus Mountains.	Sir Edmund G. Loder, Bart.
41⅜	8⅛	7⅛	... ...	Hume Collection, British Museum.
40⅛	8½	7⅞	India	British Museum.
39⅞	9⅝	1¼	Erzeroum ...	Do.
39⅞	7⅞	27	... ...	A. O. Hume, Private Collection.
38½	7¾	19	... ...	Hume Collection, British Museum.
38¼	7⅞	10	... ...	Do.
35⅝	9⅛	13⅜	Mount Ararat	British Museum.
34½	9½	18	Beluchistan ...	Sir Victor Brooke's Collection. (Shot by Maj. Hogg).
33⅞	6⅞	14⅝	... ...	Hume Collection, British Museum.
33¾	7⅝	10½	... ...	Do.
33⅝	9¾	14½	... .	British Museum.
30¾	6⅞	14	... ...	Hume Collection, British Museum.
29⅝	9¼	8⅜	Cilecian Taurus, Asia Minor.	C. G. Danford, British Museum.
26½	7½	12½	Beluchistan ...	Sir Victor Brooke's Collection. (Shot by Maj. Hogg).
25¾	6½	9⅜	... ...	Hume Collection, British Museum.
25⅝	...	5½	Solomon Mtns., Asia Minor.	British Museum.
18½	7¾	9	... ...	E. N. Buxton.
18⅜	7⅛	9½	... ...	Do. 1890.

WILD GOAT (Capra ægagrus)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
16	7½	7	Persia ...	R. J. Kennedy.
16	7	6¾	Cilecian Taurus, Asia Minor.	C. G. Danford, British Museum.
12⅝	5⅝	7¼	Europe ...	British Museum.
11⅛	4⅜	3⅝	Cilecian Taurus, Asia Minor.	C. G. Danford, British Museum.
♀ 10⅞	4⅜	3⅝	Caucasus ...	Sir Victor Brooke's Collection.
8⅝	4⅝	4¾	Maimun Dagh	E. N. Buxton, 1890.
8⅛	3⅝	4¾	Do.	Do. Do.
7⅞	3⅝	3⅞	Do.	Do. Do.

NORTH AFRICAN IBEX (Capra nubiana).

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
46⅛	8	...	North Africa ...	British Museum.
42¼	9¼	15¼	... ...	Capt. Bartelot.
41¾	7⅝	17⅝	North Africa ...	Capt. W. H. Besant.
35¾	6	10⅞	Do. ...	British Museum.
35⅛	7⅛	12	... ...	W. P. Gore Graham.
33⅛	7	20	... ...	Do.
14⅜	6⅛	6¾	North Africa ...	British Museum.

DOMESTIC GOAT (Capra hircus).

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
52½	10½	40⅝	Great Britain ...	Sir Edmund G. Loder, Bart.
26⅛	8⅜	7	Asia Minor ...	C. G. Danford, British Museum.
14	5½	8	... ...	British Museum.
♀ 10	3⅞	4⅝	Asia Minor ...	C. G. Danford, British Museum.
7⅞	4⅝	8¾	... ...	British Museum.

NILGHIRI IBEX or WILD GOAT (Capra hylocrius).

Habitat—India, Nilghiri Hills.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
16¾	8⅞	5⅝	India	A. O. Hume, Private Collection.
16½	...	(owner's measurement)	Do.	St. George Littledale.
15½	8⅝	7⅞	Do.	Sir Edmund G. Loder, Bart.
15⅜	8¾	6¾	Do.	Martyn Kennard.
15⅜	8¼	6	Nilghiri Hills	St. George Littledale, 1875.
15⅛	8⅝	4¾	India	Martyn Kennard.
15⅛	8⅝	4⅜	Nilghiri Hills	St. George Littledale, 1871.
14½	8¾	6¼	Do.	British Museum.
14½	8⅝	5⅛	India	Sir Victor Brooke's Collection.
14⅜	8	4⅝	Do.	T. W. H. Greenfield.
14⅛	8⅝	5½	Do.	Sir Victor Brooke's Collection.
14⅛	8½	6½	Do.	Do.
14	8⅝	5½	Nilghiri Hills	British Museum.
14	8	5½	India	Martyn Kennard.
13¾	8	6⅛	Do.	Do.
13⅝	9	4⅝	Do.	Do.
13⅝	8⅝	(one horn only)	Nilghiri Hills	St. George Littledale.
13½	8½	5¾	India	Sir Victor Brooke's Collection.
13½	8	5½	Do.	W. C. Oswell.
13⅜	8⅛	5⅛	Do.	A. O. Hume, Private Collection.
13	9⅛	4¾	Do.	Sir Victor Brooke's Collection.
13	8⅛	5¼	Do.	T. W. H. Greenfield.
12¾	7⅞	3⅞	Do.	Martyn Kennard.
12¾	7⅝	5⅜	Do.	T. W. H. Greenfield.

NILGHIRI IBEX or WILD GOAT (Capra hylocrius)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
12½	8	4⅝	India	Hume Collection, British Museum.
12½	7¾	4¾	Do.	Do.
12⅛	7⅜	3¾	Do.	Sir Robert Harvey, Bart.
12	7½	4¾	Do.	Hume Collection, British Museum.
11¾	5⅞	5⅝	Nilghiri Hills	British Museum.
11⅝	7⅞	5¾	India	Sir Victor Brooke's Collection.
11	5⅝	4⅛	Do.	Hume Collection, British Museum.
10⅝	6	3⅞	Do.	Sir Robert Harvey, Bart.
10¼	5⅞	3¼	Do.	J. Carr-Saunders.
♀ 10	5½	4	Nilghiri Hills	St. George Littledale, 1875.
9	5⅞	3¼	Do.	British Museum.
8⅝	5	3⅝	Do.	Hume Collection, British Museum.

THAR (Capra jemlaica).

Weight about 200 lbs.

Habitat—Himalayas from Kashmir to Bhuton.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
14⅛	8⅞	6⅝	... ...	A. O. Hume, Private Collection.
13⅞	9	8⅜	... ...	Gwynne Griffiths.
13¾	9	11¼	... ...	Hume Collection, British Museum.
13¾	8⅜	6⅞	... ...	A. O. Hume, Private Collection.
13⅝	8	6¼	... ...	Hume Collection, British Museum.
13½	8⅞	6⅛	... ...	British Museum.
13½	8½	6¾	... ...	Rowland Ward's Collection.
13⅜	9⅛	5¾	... ...	Hon. Walter Rothschild.
13¼	9⅛	7⅜	... ...	A. O. Hume, Private Collection.
13¼	8⅞	5¾	... ...	Sir Victor Brooke's Collection.
13¼	8¼	6⅞	... ...	Sir Edmund G. Loder, Bart.
13⅛	8⅞	6⅝	... ...	J. Carr-Saunders.
13	7⅞	5½	... ...	British Museum.
12⅞	8¾	6½	... ...	J. M. Nicolls.
12¾	8⅛	6⅞	Himalayas ...	Capt. Townley Parker.
12⅝	8⅞	7¼	... ...	Hume Collection, British Museum.
12½	8	6⅜	Nepal	B. H. Hodgson, British Museum.
12⅜	8⅜	7¼	... ...	Sir Victor Brooke's Collection.
12¼	8⅞	4¾	... ...	Sir Robert Harvey, Bart.
12¼	8¼	6½	... ...	H.R.H. Duke of Edinburgh.
12¼	7⅝	6⅛	... ...	Hume Collection, British Museum.

THAR (Capra jemlaica)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
12⅛	9	6¼	... ...	Gwynne Griffiths.
12	8⅛	5⅞	... ...	Sir Robert Harvey, Bart.
11⅞	8⅞	6⅜	... ...	Sir Victor Brooke's Collection.
11⅝	8¼	7½	Nepal	H.H. the Mahrajah Duleep Singh, British Museum.
11½	...	...	... ...	Capt. J. A. Orr-Ewing.
11⅛	8⅝	5⅜	... ...	Sir Robert Harvey, Bart.
11	8½	6⅛	... ...	H. F. Campbell.
10¾	9	7½	... ...	Major W. G. Forbes.
10	8¼	6⅞	... ...	J. Carr-Saunders.
9⅞	7⅝	5½	... ...	British Museum.
8⅞	8	6⅜	... ...	Sir Victor Brooke's Collection.
8	...	...	... ...	B. H. Hodgson, P.Z.S., 1834, p. 86.

CAUCASIAN BURHEL (Capra pallasi, Capra cylindricornis).

Habitat—Eastern Caucasus.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
36 (about)	15	...	... ...	Blyth, P.Z.S., 1840.
34½	10⅞	13½	... ...	Major Talbot.
33⅜	12	19¾	Caucasus ...	British Museum.
28½	11	16½	Do. ...	Sir Victor Brooke's Collection.
26½	10⅝	18	Do. ...	Sir Edmund G. Loder, Bart.
25⅝	10⅜	15⅞	Do. ...	British Museum.
20½	10	11½	Do. ...	H.R.H. Duc d'Orleans.

MARKHOR (Capra megaceros).

Habitat—India, Astor, Gilgit, and Scardo.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round Curve.	Straight line.				
54¼	...	10½	26½	India ...	A. O. Hume, Private Collection.
54	...	10⅝	33¾	Do. ...	Martyn Kennard.
53¼	42½	11½	52 (about)	Do. ...	Sir Victor Brooke's Collection, 1875.
53½	...	...	37½	Do. ...	Rowland Ward's Collection.
53	24¼	9¼	30¼	Do. ...	A. O. Hume, Private Collection.
52¾	39¾	12⅛	33¾	Do. ...	Martyn Kennard.
51⅜	37⅛	10	33	Do. ...	Sir Edmund G. Loder, Bart.
51⅛	...	11⅜	49⅜	Do. ...	Martyn Kennard.
51	...	10	34	Do. ...	Col. G. Jackson, 1864.
50	38	11¾	36	Do. ...	Sir Edmund G. Loder, Bart.

MARKHOR (Capra megaceros)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round Curve.	Straight line.				
50	...	11⅝	35¼	India ...	Martyn Kennard.
50	...	(owner's measurement)	...	Do. ...	Capt. H. V. Olivier, R.E.
48½	...	11½	45	Do. ...	Capt. M. Murphy.
48½	...	7¾	(odd horn, Suleiman race)	Do. ...	British Museum.
48¼	...	11⅞	29⅜	Do. ...	A. O. Hume, Private Collection.
47⅝	37⅝	11¼	29	Do. ...	Martyn Kennard.
47½	36¾	10½	22¾	Do. ...	Major Talbot.
47	36	11⅝	39	Do. ...	Sir Victor Brooke's Collection, 1875.
46½	...	11½	(odd horn, Astor race)	Astor Valley	British Museum.
46¼	32¼	12	44¾	India ...	A. O. Hume, Private Collection.
46	...	10½	...	Do. ...	Manners Smith.
44	33⅞	10½	31	Do. ...	J. Carr-Saunders.
44	...	...	35	Do. ...	Lloyd Anstruther.
44	...	10¼	31¼	Do. ...	Martyn Kennard.
43⅞	...	11⅛	32⅞	Do. ...	Do.
43¾	...	10½	32⅞	Do. ...	Hon. Charles Ellis.
43½	...	11½	32	Do. ...	Martyn Kennard.
43⅛	...	11⅛	30⅛	Do. ...	Do.
43	...	12	33	Kashmir ...	Rowland Ward's Collection.
43	...	10½	36	India ...	C. Spedding.
43	...	...	29	Do. ...	Lloyd Anstruther.
42¾	...	12	32½	Do. ...	Sir Robert Harvey, Bart.
42½	32½	11¼	32⅝	Do. ...	Hon. Walter Rothschild.
42½	...	11	35	Do. ...	Martyn Kennard.
42⅜	...	10¾	32⅞	Do. ...	Sir Edmund G. Loder, Bart.
41¼	...	10	30⅞	Do. ...	St. George Littledale.

MARKHOR (Capra megaceros)—*continued.*

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Round Curve.	Straight line.				
41	...	12¼	42⅜	River Indus, Kashmir.	Capt. M. Murphy, British Museum.
41	...	10	27⅜	Pir Pingal, Kashmir 9000 ft.	R. Lydekker, British Museum.
40⅜	...	12⅜	27½	India ...	Sir Edmund G. Loder, Bart.
40⅛	...	11⅜	26¾	Do. ...	Martyn Kennard.
40⅛	...	10⅜	30½	Do. ...	Sir Edmund G. Loder, Bart.
39¾	...	11⅝	19¾	Do. ...	H. C. V. Hunter.
39⅜	...	10¼	24¼	Afghanistan	Col. Grant, British Museum.
39¼	...	9½	21¾	India ...	British Museum.
39	...	11	31½	Do. ...	Martyn Kennard.
39	...	10⅞	30½	Do. ...	Hon. Charles Ellis.
38¼	...	10¼	(one horn broken off)	Do. ...	Martyn Kennard.
37½	...	10⅜	25⅛	Kashmir ...	Lieut. Abbott, British Museum.
37	...	12	18¾	India ...	H. C. V. Hunter.
35¾	28	10¼	27⅞	Do. ...	J. Carr-Saunders.
35⅜	(Suleiman race)	9⅞	20⅜	Paghura ...	Lieut. Abbott, British Museum.
35¼	...	10⅞	25	India ...	Sir Robert Harvey, Bart.
30¼	...	8¼	13¾	Peshawar, North India.	Lieut. Abbott, British Museum.
21½	...	8½	21⅝	Kashmir ...	R. Lydekker, British Museum.
♀ 16¼	13⅜	5⅜	13	India ...	Martyn Kennard.

TRANS-INDUS MARKHOR (Capra falconeri).

Habitat—India, Pir Pinjal Range, Afghanistan, Suleiman Range.

Length.		Circumference.	Tip to Tip.	Habitat.	Owner.
Straight line.	Round curve.				
38½	...	10½	23⅞	India ...	H.R.H. Duke of Edinburgh.
33	47⅞	9¼	19¾	Afghanistan	Sir Edmund G. Loder, Bart.
32¼	...	9¾	28	India ...	A. O. Hume, Private Collection.
30¾	45¼	8¾	21½	Do. ...	Sir Victor Brooke's Collection, 1875.
27⅛	39	8⅜	21	Do. ...	Sir Edmund G. Loder, Bart.
27	...	10	22¾	Do. ...	A. O. Hume, Private Collection.
25½	...	(one horn malformed)	...	Do. ...	G. Landseer, "The Field," 1873.
25⅜	...	8⅜	21½	... ...	A. O. Hume, Private Collection.
24	...	(owner's measurement)	...	Sheikh Boodeen.	Capt. A. A. Kinloch.
22½	...	10¼	15¾	India ...	J. E. Penton.

MARCO POLO'S SHEEP (Ovis poli).

[Sir VICTOR BROOKE, Bart., and Mr. BASIL BROOKE, P.Z.S. 1875, p. 514.]

THE horns are very large, pressed in from the sides, the edges, with the exception of the fronto-nuchal edge, being rounded. The orbital surface is pressed in, and commences to get narrower only during the last third of its length. The horn is more than four times the length of the skull. The basal and terminal axes of the horns are not parallel, the latter being directed more horizontally. All round the neck there is a pure white mane, and there is a dark line along the spiral column from the shoulders to the loins. The light greyish brown of the sides shades off into white towards the belly. A pure white anal disk surrounds the tail; above this disk is bordered by a rather dark line, but below it extends largely over the hinder parts of the thighs, shading gradually into the brown colour of the legs. I did not discover any soft short hair under the long winter hair during the month of October.

Height, 46 inches; length of horns, 57 inches.

Habitat—Central Asia, the Pamir, and Thian Shan of Turkestan.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
75	16	54½	... ...	H.E. Gen. Sir Fredk. Roberts, "The Asian," Nov. 13th, 1891.
73	15	48 (owner's measurement)	Little Pamir	Col. Tanner, 1881.
68½	15	35¾	... ...	Lewis Flower.
68	17	43	... ...	Col. R. Pole Carew.

MARCO POLO'S SHEEP (Ovis poli)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
68	16	52	... ...	Indian Museum, "The Asian," Nov. 13th, 1891.
67	16½	42	... ...	Col. R. Pole Carew.
66⅞	15⅝	46	... ...	Sir Edmund G. Loder, Bart.
66⅞	13⅞	...	... ...	A. O. Hume, Private Collection.
66	15¼	44	... ...	Hume Collection, British Museum.
65⅞	16	48	... ...	Do.
65½	16	53	Great Pamir (16,000 ft.)	Col. T. E. Gordon, British Museum.
65⅜	16¼	...	... ...	A. O. Hume, Private Collection.
65	16½	49½	... ...	Capt. Blane.
65	(owner's measurement)	...	... ...	St. George Littledale. (Presented to the Empress of Russia.)
65	...	...	... ...	Rowland Ward's Collection.
64⅞	15⅝	46	Great Pamir ...	Hume Collection, British Museum.
64¼	16½	41	... ...	W. Lawrence.
64¼	15¼	39	... ...	H. C. V. Hunter.
63⅝	16⅛	42½	... ...	Hon. Walter Rothschild.
63½	15⅞	...	... ...	A. O. Hume, Private Collection.
62½	16¼	...	... ...	H. C. V. Hunter.
62½	15¼	41	Great Pamir ...	Hume Collection, British Museum.
62	15¼	40	... ...	Hon. Charles Ellis.
61⅜	15⅞	41⅜	... ...	Do.
61⅛	15½	47⅛	... ...	Do.
61⅛	15⅜	46	... ...	Do.
60¾	15¾	46⅞	Pamir	St. George Littledale.
60¼	14½	50⅝	... ...	Hon. Charles Ellis.
59⅞	16	43	Great Pamir ...	Hume Collection, British Museum.
59½	17⅜	45⅜	... ...	Hon. Charles Ellis.
59	16	...	... ...	A. O. Hume, Private Collection.

MARCO POLO'S SHEEP (Ovis poli)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
59	15¾	41 (about)	... ...	Martyn Kennard.
58¾	15	52	Great Pamir ...	Hume Collection, British Museum.
58⅝	14½	39⅝	Do. ...	Do.
58½	15¼	51	... ...	Hon. Charles Ellis.
58¼	15¼	46¾	... ...	Do.
57¾	15	46¾	... ...	Maj.-Gen. Arthur Ellis, C.S.I.
57¾	14¾	50	... ...	Reginald Beech.
57½	16⅛	49¼	... ...	W. Lawrence.
57½	14¾	48	... ...	Reginald Beech.
57⅜	15⅝	43¾	... ...	Hon. Charles Ellis.
56⅞	16	42⅞	... ...	Do.
56⅞	15⅛	35½	Pamir	St. George Littledale.
56	14¼	45	... ...	Blyth, P.Z.S. 1840, p. 63.
56	...	...	... ...	C. Hunter.
55¾	15¾	43	... ...	J. Carr-Saunders.
55⅛	14¼	43¾	... ...	British Museum.
55	16	44	... ...	H.R.H. Duc d'Orleans.
54⅞	16⅜	42⅝	Pamir	St. George Littledale.
54⅞	15⅜	46⅝	Do.	Do.
54⅞	15¼	48⅜	Do.	Sir Victor Brooke's Collection.
54¾	16⅞	38½	... ...	Hon. Charles Ellis.
54⅛	14¾	40½	Pamir	St. George Littledale.
54⅛	14½	41	Do.	Do. 1886.
53⅞	15⅝	43¾	Lake Karakol ...	Do.
53⅛	14⅛	40⅞	... ...	Reginald Beech.
52¾	15⅝	48¼	Alichur	St. George Littledale.
52½	15⅝	45⅛	... ...	Reginald Beech.

MARCO POLO'S SHEEP (Ovis poli)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
52⅛	15	41	... ...	Reginald Beech.
50½	13⅞	40⅜	Pamir	St. George Littledale.
50½	15	42¾	Alai Plateau, Pamir	Do. British Museum.
49⅞	15¼	39½	Pamir	Do.
49¼	15¾	34¾	... ...	Reginald Beech.
49	15¾	38½	... ...	Do.
48	15⅝	42⅜	Pamir	St. George Littledale.
48	13⅝	43	Alai Plateau, Pamir	Do. British Museum.
46⅞	15½	27	Saiar Mountains, Altai.	Do. Do.
46	15	49	... ...	P. L. Sclater, P.Z.S. 1860, p. 433.
45⅞	13⅞	39½ (about)	... ...	A. O. Hume, Private Collection.
43¼	14⅞	31¼	Pamir	St. George Littledale.
43	15	37 (about)	Do.	Do.
42	14	39¼	Do.	Do.
41¼	14½	29	Siberia	British Museum.
40½	13¼	44½	Alai Plateau, Pamir	St. George Littledale, British Museum.
38⅝	14⅜	...	Pamir	Do.
36¾	12¼	...	Do.	Do.
33⅜	14	28	Saiar Mountains, Altai.	Do. British Museum.
15¾	6⅞	15⅝	Alai Plateau, Pamir	Do. Do.
11½	5¼	15⅜	Saiar Mountains, Altai.	Do. Do.

WILD SHEEP OF THIAN SHAN (Ovis karelini).

[Sir VICTOR BROOKE, Bart., and Mr. B. BROOKE, P.Z.S. 1875, p. 512.]

THE horns are moderately thick, with rather rounded edges; frontal surface very prominent; orbital surface rather flat, narrowing only in the last third of its length. The horns are three times as long as the skull. The basal and terminal axes of the horn rise parallel with each other; the median axis is parallel with the axis of the skull. The neck is covered by a white mane, shaded with greyish brown. The light brown of the back and sides is separated from the yellowish white of the belly by a wide dark line. The light brown of the upper parts gets gradually lighter towards the tail, where it becomes greyish white, but does not form a sharply marked anal disk. On the back there is a sharply marked dark line running from the shoulders to the loins. I did not find any soft hair under the long winter hair in October.

Height at the shoulder, 3 ft. 6 in.; length of the horns, from 44 in. to 45 in.

Range.—Ovis karelini inhabits all the Semiretchinsk Altai, and also the Sapliskey Altai, but is not so common there as in the mountains between Tamgali (?) and Kaskelen; but it is partly driven from this latter locality by the Cossack sportsmen, and has gone to a higher elevation, namely the Kebin Steppe, above the range of trees. East of Tamgali (?) (Turgeli) (?), on the bare mountains and plains near the rivers Chilik and Kelen, Ovis karelini is very abundant, but not on the mountains covered with trees; it extends from this locality as far as Santash. Further it inhabits all the neighbourhood of Issik Kul; is rather rare on the northern parts of the Thian Shan, which are thickly wooded. I also met with numerous flocks in the steppes of the Narin, where they find abundance of food and shelter at an elevation of about 12,000 or 13,000 feet above the level of the sea.

This species is also met with on the mountains separating the Narin from its tributary the Atpash, as far as the plains between the rivers Kurtka and Chatir Kul ; but from the eastern sources of the Atpash as far as the Chatir Kul it is found only in company with Ovis polii.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
54¼	16⅛	34¾	West Chinese Mongolia.	St. George Littledale.
49¼	14½	34⅝	Do.	Do.
49	15⅜	31½	Do.	Do. 1889.
48¼	13¼	33¾	Thian Shan ...	Yarkund Mission, British Museum.
46½	15⅜	29½	Do. ...	Do.
42	14¼	34	Do. ...	Do.
41⅝	13⅞	19	West Chinese Mongolia.	St. George Littledale.
27½	...	21½	Thian Shan ...	Yarkund Mission, British Museum.
23⅜	10½	24	Do. ...	Sir Victor Brooke's Collection.
16¾	...	18	Do. ...	Yarkund Mission, British Museum.

OVIS AMMON.

Habitat—Northern Asia.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
47¾	19	31¼	Siberia ...	British Museum.
46½	19¾	20 (about)	... ...	A. O. Hume, Private Collection.
45½	16¼	17	India	H.R.H. Duke of Teck.
43½	16⅝	(loose horns)	... ...	H. C. V. Hunter.
42½	16½	19 (about)	... ...	A. O. Hume, Private Collection.
42½	16	18	... ...	Hume Collection, British Museum.
42½	16	18	... ...	Rowland Ward's Collection.
42½ (?)	15¼	...	... ...	J. Carr-Saunders.
42⅜	16¼	20	... ...	H.R.H. Duke of Edinburgh.
42⅛	16¾	14¼	... ...	Hume Collection, British Museum.
42⅛	16½	18 (about)	... ...	A. O. Hume, Private Collection.
42	16¾	17¼	... ...	Hume Collection, British Museum.
41⅞	16	...	... ...	Hon. Walter Rothschild.
41¼	17½	16 (about)	... ...	A. O. Hume, Private Collection.
40½ (?)	14½	26¼	... ...	St. George Littledale, British Museum.
40⅜	17⅝	20⅜	... ...	Hon. Charles Ellis.
40¼	17¼	20	... ...	Hume Collection, British Museum.
40	16¾	19½	... ...	Do.

OVIS AMMON—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
40	16	18½	... ...	Hume Collection, British Museum.
39½	16½	18½	... ...	Sir Victor Brooke's Collection.
39¼	17	14¾	... ...	Hon. Charles Ellis.
39	17	19	... ...	Sir Robert Harvey, Bart.
38⅞	14⅞	(one horn broken)	Altai	Sir Victor Brooke's Collection, 1871.
38¾	16	20	... ...	Maj-Gen. Arthur Ellis, C.S.I.
38½	16	(owner's measurement)	... ...	Capt. A. A. Kinloch.
38¼	17⅛	18¼	Himalayas ...	Col. Congreve, British Museum.
38	18	19¼	... ...	Hon. Charles Ellis.
38	17½	19½	... ...	H. C. V. Hunter.
38	16	23½	... ...	East India Company, British Museum.
37¾	16½	...	... ...	Sir Robert Harvey, Bart.
37½	18¼	16½	... ...	G. McMicking.
37½	16¼	17	... ...	Capt. M. Murphy.
36⅞	16¼	16¾	... ...	Sir Edmund G. Loder, Bart.
36½	15¼	19½	Ladak	Col. Congreve, British Museum.
36	16¾	...	... ...	H. C. V. Hunter.
36	15¾	20	... ...	G. McMicking.
36	15½	20	... ...	Capt. G. Campbell.
35½	16¾	15	... ...	H. C. V. Hunter.
35¼	17¾	21¼	Ladak	British Museum.
34¾	15½	20½	... ...	H. C. V. Hunter.
33½	15⅞	...	... ...	Do.
33	16	17½	... ...	Reginald Beech.
20¼	7⅜	17	Siberia ...	British Museum.
♀ 18	7	19¾	Nepal	B. H. Hodgson, British Museum.
♀ 12½	5	15⅝	... ...	Sir Victor Brooke's Collection.

OVIS HODGSONI.

[Sir VICTOR BROOKE, Bart., and Mr. B. BROOKE, P.Z.S. 1875, p. 520].

ADULT male, winter, Colebrooke collection. Obtained within 30 miles of Leh in the winter of 1873.

Hair of body about 2 inches in length, coarse and close-set; on the sides and lower surface of the neck the hair is lengthened into a long rich ruff-like mane of a snow-white colour. Along the median line of the upper neck there is a narrow band of rather shorter hair, which, however, is about twice as long as that on the body, and, being continued as far back as the withers, forms a short dorsal mane; general colour of the body dark brown, mixed with grey; anterior parts of the face, belly, limbs below the carpi and tarsi internally, and a small anal disk surrounding the tail and rump, dirty white; cheeks and forearms darker than the rest of the body; ears and tail short, the latter with a narrow dark line along its upper surface; horns massive and rather short, their terminal curve being but slightly developed.

Female, much paler than the male, with little or no mane. No distinct anal disk.

Range.—Little Thibet (Kinloch, &c.); Cachar region, Nepaul (Hodgson).

Habitat—Nepal.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
44⅝	17½	22½	Nepal	B. H. Hodgson, British Museum.
41⅛	16¾	19	Ladak	Sir Victor Brooke's Collection.
38⅜	15⅜	18	Do.	Do.
35¼	16½	15½	Do.	R. Lydekker, British Museum.
♀ 14½	7½	17½	Do.	Sir Victor Brooke's Collection.

OVIS BROOKEI.

[Sir VICTOR BROOKE, Bart., and Mr. B. BROOKE, P.Z.S. 1875, p. 521].

THIS species is based upon a skull and horns in our own collection: The locality from which the specimen was obtained in not so certain as could be desired, but we have strong reasons for believing that the animal was shot in the vicinity of Leh, in Ladak. In its much smaller size it differs from Ovis hodgsoni, and in its deeply sulcated horns, the angles of which are very much rounded and the terminal curve but slightly developed, it differs as decidedly from Ovis karelini. It is not improbable that the species will be found to inhabit the Kuenluen Mountains.

Habitat—Ladak.

Dimensions of the specimen :

	inches.
Length of skull, measured from highest point between the horn	11
Smallest breadth between orbits	$4\frac{5}{8}$
Length of horns, round the curve	$33\frac{1}{2}$
Circumference of horns	$13\frac{3}{8}$

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$33\frac{1}{2}$	$13\frac{1}{2}$	$18\frac{1}{2}$	Ladak	Sir Victor Brooke's Collection.

OVIS BLANFORDI.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$36\frac{1}{2}$	$9\frac{5}{8}$	(single horn)	... ...	Hume Collection, British Museum.
$31\frac{3}{8}$	$9\frac{3}{8}$	$13\frac{3}{4}$	... ...	Do.
$23\frac{5}{8}$	$9\frac{1}{2}$	$17\frac{3}{4}$	... ...	Do.

BIGHORN SHEEP (Ovis canadensis).

Habitat—North America.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
41	17¼	26	... ...	Blyth, P.Z.S. 1840, p. 64.
...	17¼	(owner's measurement)	... ...	T. W. H. Clarke.
40¾	16½	...	... ...	British Museum (American Exhibition Catalogue).
40¼	15¼	20¼	... ...	Sir Edmund G. Loder, Bart.
39⅝	15⅜	...	Colorado ...	St. George Littledale.
39½	16½	24¾	North America	British Museum.
39	15¾	...	... ...	W. A. Baillie Grohman (American Exhibition Catalogue.
39	14⅛	18½	... ...	The late J. S. Jameson.
38⅜	15½	22	... ...	E. N. Buxton.
38¼	15¼	19¼	Montana ...	St. George Littledale.
38¼	16⅜	...	... ...	H. Seton Karr (American Exhibition Catalogue).
38	17	...	... ...	Capt. A. Pike.
38	15	...	... ...	Capt. F. Cookson.
37¾	15⅞	23⅜	Mexico ...	J. A. H. Drought.
37¾	14⅛	15¾	British Columbia	Capt. F. Cookson.
37½	16	19⅛	... ...	Sir Edmund G. Loder, Bart.
37	16¼	...	... ...	Major Maitland Kirwin (American Exhibition Catalogue).
36⅝	14¾	14¾	... ...	F. J. Horniman.

BIGHORN SHEEP (Ovis canadensis)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
36½	15½	...	... ...	Major Maitland Kirwin (American Exhibition Catalogue).
36½	14½	...	... ...	Gerald Buxton (American Exhibition Catalogue).
36½	14½	...	... ...	Thos. Bate (American Exhibition Catalogue).
36½	14	...	... ...	J. D. Cobbold.
36½	14⅜	13½	... ...	J. C. L. Knight Bruce.
36¾	15¼	22⅛	... ...	Moreton Frewen.
36¼	14⅜	18½	... ...	E. N. Buxton.
36	14½	16½	Montana ...	R. H. Sawyer.
36	15½	...	... ...	Capt. A. Pike.
35¾	13⅞	19 (about)	... ...	E. N. Buxton.
35⅜	13¼	18	Montana ...	St. George Littledale.
35¼	12¼	16	California ...	Sir Victor Brooke's Collection.
35¼	16½	16½	British Columbia	Capt. F. Cookson, 1885.
35	14	...	... ...	Sir Michael Culme Seymour, Bart.
35	15¾	17¾	... ...	Hon. Charles Ellis.
34¾	15½	...	Colorado ...	St. George Littledale.
34¾	14¼	18	... ...	The late J. S. Jameson.
34½	14½	...	... ...	G. P. Fitzgerald.
34	15	...	... ...	Do.
33⅞	14¾	17	... ...	J. C. L. Knight Bruce.
33½	15¼	20¼	... ...	Sir Victor Brooke's Collection.
33½	14½	...	... ...	Sir Michael Culme Seymour.
33½	14	...	... ...	Rowland Ward's Collection.
33½	16	18½	... ...	J. Carr-Saunders.
33	14½	...	... ...	G. P. Fitzgerald.
32⅞	15⅜	19½	... ...	Sir Victor Brooke's Collection.
32½	14½	16¾	... ...	The late J. S. Jameson.

BIGHORN SHEEP (Ovis canadensis)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
32½	13½	...	... ...	J. D. Cobbold.
32⅜	14	20½ (about)	... ...	E. N. Buxton.
32⅜	12⅞	16½	... ...	J. C. L. Knight Bruce.
32⅛	13½	17½	... ...	Do.
32	16½	...	... ...	Rowland Ward's Collection.
32	14¾	17¼	Yellowstone River.	British Museum.
32	13½	...	... ...	J. D. Cobbold.
31¼	15¾	...	... ...	G. D. Whatman (American Exhibition Catalogue).
31	16½	...	... ...	Frank Cooper (American Exhibition Catalogue).
30¾	15	23 (about)	... ...	Hon. Walter Rothschild.
30½	15	...	... ...	Wm. Marr.
30	13	...	... ...	J. D. Cobbold.
28⅝	13⅝	...	British Columbia	Capt. F. Cookson.
28⅜	13⅝	19¾	... ...	Hon. T. A. Brassey.
28	14½	...	... ...	W. C. Beaumont.
27¾	14½	18½	Colorado ...	Sir Victor Brooke's Collection (from J. H. Batty's Collection).
27½	14½	15 (about)	... ...	Col. Ralph Vivian.
27⅜	14½	...	... ...	E. N. Buxton.
26¾	13½	...	... ...	A. H. Harrison.
25½	13¼	...	... ...	J. D. Cobbold.
25	13¼	...	British Columbia	Capt. F. Cookson.
25	14¾	...	... ...	W. C. Beaumont.
21⅞	13⅛	20½	California ...	British Museum.
♀ 13	6⅞	13¾	Mexico ...	J. A. H. Drought.
♀ 4	3¾	6	Yellowstone River.	British Museum.

KAMSCHATKA WILD SHEEP or WILD SHEEP OF ALASKA (Ovis nivicola).

[Sir VICTOR BROOKE, Bart., and Mr. B. BROOKE, P.Z.S. 1875, p. 521.]

ADULT male (winter), Mus. Lugd., Kamschatka.

Hair very long and woolly, and not lengthened into a mane on the neck; general colour grizzly brown; an indefinitely bounded patch on the face below the eyes, and all four limbs anteriorly rich uniform dark brown; space round the muzzle, upper and under lip, rump, and posterior part of the haunches, centre of the belly, and the limbs posteriorly pure white. The white on the posterior parts of the limbs give place very suddenly to the brown of their anterior surfaces. The white of the rump does not surround the tail, which on its upper surface is darker than the back. Ears and tail very short.

Horns in form closely resembling those of Ovis montana. Frontal and nuchal surfaces convex; orbital surface flat; fronto-nuchal and edges very greatly rounded; fronto-orbital edge strongly defined, a deep groove lying between it and the orbital surface; the terminal curve of the horns well developed, and directed upwards and outwards.

Skull remarkably short and broad, and strongly anchylosed; a shallow anteorbital fossa. Length from between horns to end of præmaxillæ 10 inches, its greatest width across the orbits 6¾ inches; height at the shoulder, 37 inches; length of horns round curve, 33 inches, their circumference 12¾ inches.

Adult male, Mus. Strassburg. Only differs from the former in being considerably paler in colour. Length of horns 27 inches, their circumference 13½ inches.

Adult female, Mus. Lugd. Is darker than the male, and has short compressed horns, about 9 inches in length. The distribution of colour is the same as in the male.

Range.—Kamschatka (Eschscholtz); Stanovoi Mountains, as far south as the sources of the Utschur (Middendorff).

Habitat—Kamschatka.

KAMSCHATKA WILD SHEEP or WILD SHEEP OF ALASKA (Ovis nivicola)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
38	13½	26	... ...	F. H. H. Guillemard's party in the "Marchesa," P.Z.S. 1885, p. 675.
35½	14	26½	... ...	Do.
35	13¼	25½	... ...	Do.
35	13¼	21	... ...	Do.
34¾	14½	25	... ...	Do.
34½	11⅞	17¾	... ...	British Museum.
32¾	13½	23	... ...	Sir Edmund G. Loder, Bart.
32½	13¾	22½	... ...	F. H. H. Guillemard's party in the "Marchesa," P.Z.S. 1885, p. 675.
32¼	14	21	... ...	Do.
26½	12½	21½	... ...	Do.
24¼	12¼	22	Stanowoi Mntns., E. Siberia.	British Museum.
24	13	17½	... ...	F. H. H. Guillemard's party in the "Marchesa," P.Z.S. 1885, p. 675.
23½	11½	18½	Petropaulovski, Kamschatka.	Dr. Dybowski, British Museum.
13	14	25	Kamschatka ...	Lord Lilford. (Shot by F. H. H. Guillemard's party.)

The horns can be readily distinguished from O. Montana by the slenderness at the points.

OORIAL (Ovis cycloceros)—SHAPOO (Ovis vignei).

Habitat—North-West India.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
*38⅝	12¼	11¼	India	J. Carr-Saunders.
*37½	10¼	11	... ...	A. O. Hume, Private Collection.
*36⅜	9⅛	(about) 17	... ...	Do.
*36¼	11¼	...	... ...	Do.
*35½	10½	16	Gulran, Afghanistan	Dr. J. Aitchison, British Museum.
*33⅝	9⅛	...	... ...	A. O. Hume, Private Collection.
*33⅛	11½	10⅝	... ...	Sir Edmund G. Loder, Bart.
*32½	11	8	... ...	Blyth, P.Z.S. 1840, p. 71.
†32½	10	11½	... ...	Sir Victor Brooke's Collection.
*32¼	10½	11¾	... ...	Do.
*32¼	10	11½	... ...	Hume Collection, British Museum.
†31¾	9¼	5¼	... ...	Do.
†31¼	8½	16	... ...	Do.
*31	12	9¾	... ...	A. O. Hume, Private Collection.

* Ovis vignei † Ovis cycloceros.

OORIAL (Ovis cycloceros)—SHAPOO (Ovis vignei)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
†31	9	...	... ...	Col. Western.
*30⅞	10½	13	Ladak	R. Lydekker, British Museum.
†30⅞	9⅞	20⅛	Jhelum, Salt Range	Sir Victor Brooke's Collection.
*30½	12	...	... ...	Rowland Ward's Collection.
*30½	...	(owner's measurement)	... ...	C. Hunter.
*30⅜	10¾	10½	... ...	Hume Collection, British Museum.
*30	11¾	16	... ...	Hon. Walter Rothschild.
†30	10½	10	... ...	Hume Collection, British Museum.
†30	9⅜	11¼	... ...	Sir Victor Brooke's Collection.
*30	8¾	14	... ...	Prof. Oldham, British Museum.
†29⅞	10⅜	...	... ...	H. C. V. Hunter.
†29¾	9¼	8¾	Punjaub... ...	British Museum.
†29⅜	9⅞	14½	... ...	Hume Collection, British Museum.
*29¼	10⅞	13½	... ...	Do.
*29¼	10⅞	11¾	... ...	British Museum.
†29¼	9	13½	... ...	Hume Collection, British Museum.
*29	11⅝	18½	... ...	Do.
*29 (shortest)	11⅛	...	... ...	Sir Robert Harvey, Bart.
28½	8⅝	19½	Ladak	Prof. Oldham, British Museum.
*28¼	9	15½	Kusan, Afghanistan	Dr. J. Aitchison, British Museum.
*27½	11⅛	18¼	... ...	Martyn Kennard.
†27⅜	9¾	17½	... ...	Hume Collection, British Museum.
*27	11⅜	18⅛	Cya Mullah, Ladak	Sir Victor Brooke's Collection, 1875.
*26¾	10⅜	12⅝	... ...	Martyn Kennard.
†26½	10½	13	Ladak	St. George Littledale, 1877.
*26½	10⅜	11⅝	... ...	Martyn Kennard.
*26½	9½	23½	... ...	Sir Victor Brooke's Collection.

* Ovis vignei. † Ovis Cycloceros.

OORIAL (Ovis cycloceros)—SHAPOO (Ovis vignei)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
†26¼	11½	12¾	Ladak	St. George Littledale, 1877.
*26	10½	17½	... ...	Martyn Kennard.
*26	9¼	13⅛	... ...	Do.
†26	(owner's measurement)	...	Kolet Khoond, Salt Range.	Capt. A. A. Kinloch.
*25¾	10⅞	19	... ...	Hume Collection, British Museum.
*25½	11¼	15⅝	... ...	Hon. Charles Ellis.
*25½	9¾	12	... ...	British Museum.
†25⅜	9¾	13¾	... ...	Sir Edmund G. Loder, Bart.
†25⅛	9⅝	17½	Kohrod, Persia ...	Sir Victor Brooke's Collection.
*24¾	10½	18	... ...	British Museum.
*24⅝	9⅞	20½	... ...	Martyn Kennard.
†24½	8⅞	...	... ...	H. C. V. Hunter.
*24⅜	9⅛	13	... ...	Martyn Kennard.
†23⅞	9	10½	... ...	Hume Collection, British Museum.
*23¾	11	18	Astor	Sir Victor Brooke's Collection, 1875.
†23½	10	...	... ...	Col. Marten.
†23⅜	8⅞	9⅝	... ...	H. C. V. Hunter.
†23⅛	8⅞	...	... ...	Do.
*23	10⅞	20¼	... ...	Martyn Kennard.
†23	10¾	15¾	... ...	Sir Robert Harvey, Bart.
†23	9½	...	... ...	H. C. V. Hunter, 1889.
†22¾	9⅞	16⅞	... ...	Sir Robert Harvey, Bart.
†22¾	9¼	16 (tips broken)	... .	Rowland Ward's Collection.
†22¼	8½	20	Punjaub... ...	British Museum.
†22	10½	20	... ...	Capt. M. Murphy.
*21⅛	10⅝	19¼	... ...	British Museum.
*20	10⅝	19½	Astor	Sir Victor Brooke's Collection, 1875.

* Ovis vignei. † Ovis cycloceros.

BURHEL (Ovis nahura).

Habitat—Himalayas.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
32	...	...	India	B. H. Hodgson, P.Z.S. 1840, p. 66.
30⅞	12¼	21⅞	Do.	A. O. Hume, Private Collection.
30	12¼	22½	Do.	Do.
29½	11⅝	25½	Do.	H.R.H. Duke of Edinburgh.
28	11	20¼	Do.	Hume Collection, British Museum.
27¾	10¼	10	Do.	Capt. G. Campbell.
27¼	11	21½	Ladak	St. Geo. Littledale, 1877.
26¼	11⅞	23	India	Sir Victor Brooke's Collection.
26¼	12	21¼	Do.	Hon. Walter Rothschild.
26¼	10¾	22	Do.	Sir Edmund G. Loder, Bart.
26⅛	12⅜	25	Do.	Hume Collection, British Museum.
26	12	20½	Do.	Rowland Ward's Collection.
25½	11½	...	Do.	Zoo. Society's Museum (P.Z.S. 1840, p. 67 and 68).
25⅜	11¼	25¼	Ladak	St. George Littledale, 1877.
24½	12¼	26	India	J. Carr-Saunders.
24	11	...	Ladak	Mr. Leadbeater, Zoo. Society's Museum (P.Z.S. 1840, p. 67 and 68).
24	10	22¼	India	Rowland Ward's Collection.
24	11	22¾	Do.	B. H. Hodgson, British Museum.
23¾	10⅝	26⅛	Ladak	R. Lydekker, British Museum.
23⅜	11¾	24¼	India	Sir Robt. Harvey, Bart.

BURHEL (Ovis nahura)-

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
23¼	11¼	25¾	India	Hume Collection, British Museum.
23	12	26	Do.	H.R.H. Duke of Edinburgh.
22⅜	10¾	22¾	Do.	B. H. Hodgson, British Museum.
22¼	10½	23	Ladak	St. George Littledale, 1877.
22⅛	10⅝	...	India	Sir Robert Harvey, Bart.
22	...	...	Do.	Do.
22	10⅝	25½	Do.	Do.
22	10½	21¼	Nepal	B. H. Hodgson, British Museum.
22	11	24	... ...	Capt. G. Campbell.
21¾	10¼	23	India	Capt. G. McMicking.
21¾	11⅜	25¾	Do.	Hume Collection, British Museum.
21½	11	...	Do.	H. C. V. Hunter.
21⅛	11	23¾	Do.	Hume Collection, British Museum.
20	10	25	Do.	Zoo. Society's Museum (P.Z.S. 1840, p. 67 and 68).
19⅞	10⅜	23¼	Ladak	St. George Littledale, 1877.
19¼	10½	24	India	B. H. Hodgson, British Museum.
19¼	11¼	27	Thibet	Sir Victor Brooke's Collection.
19	10½	26	India	Reginald Beech.
18¾	11⅞	24½	Nepal	B. H. Hodgson, British Museum.

OVIS ARGALI.

Habitat—India.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
40½	17	11	Nepal	B. H. Hodgson, British Museum.
37¼	16	17½	Do.	Do.

MOUFFLON (Ovis musimon).*

[BLYTH, P.Z.S. 1840, p. 72.]

IT is unnecessary to give a detailed description of this beautiful little species, though I may mention that the fine living male in the gardens measures 39 in. from nose to tail, the tail 5 in.; from nose to base of horn 7 in.; ears 4 in.; neck, from posterior base of horn to the abrupt angle of its insertion, 8 in., and thence to base of tail 21 in.; height at the shoulder 2¼ ft.

The female has seldom any horns, which, when they exist, are ordinarily about 2 in. long.

Habitat—Sardinia and Corsica.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
28⅞	8⅛	...	Sardinia ...	E. N. Buxton.
28	8¾	9⅜	Do.	Do.
26	7	12	... ...	Blyth, P.Z.S. 1840, pt. 8, p. 72.
25½	8¼	10	... ...	Hon. Walter Rothschild.
24½	9⅛	9⅞	South-West Sardinia.	Sir Victor Brooke's Collection.
24	9	12	... ...	R. J. Kennedy.
22⅞	8	5⅛	... ...	Zoological Society, British Museum.
21¼	8⅞	...	Sardinia ...	E. N. Buxton.
21	8¼	9	South Sardinia ...	Sir Victor Brooke's Collection.
21	8¼	6	... ...	Blyth, P.Z.S. 1840, pt. 8, p. 72.
20¾	7⅝	12	North Africa ...	British Museum.
8⅝	5⅞	9⅝	Sardinia ...	E. N. Buxton.

* The Moufflon sheep of Corsica and Sardinia, but not, there is reason to suspect, of the Levantine Countries.

CYPRIAN WILD SHEEP or MOUFFLON (Ovis ophion).

Habitat—Cyprus.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
24	8	4·60	Cyprus	Lord Lilford, P.Z.S. December 2nd, 1882.
23½	8·15	12·20	... ...	Col. J. Biddulph, P.Z.S. December 2nd, 1882.
23	7	5¾	... ...	British Museum, P.Z.S. December 2nd, 1882.
22⅞	7¼	6	Trudos Mountains, Cyprus.	Gen. Sir R. Biddulph, British Museum.
22¼	8	12¾	Cyprus	Sir Victor Brooke's Collection.

AOUDAD (Ovis tragelaphus).

[BLYTH, P.Z.S. 1840, p. 75.]

THIS animal appears to vary considerably in size—some exceeding a Fallow Deer in stature, while others are much smaller. It has no beard on the chin, like the true goats, but is remarkable for the long hanging hair in front of the neck and on the upper part of the fore-limbs, the former attaining in fine males to about a foot in length, and the latter to 9 in.; there is also some lengthened hair at the setting on of the head, and a dense nuchal mane, the hairs of which are 3 in. long, continued over the withers till lost about the middle of the back; general colour yellow-brown; horns moderately stout, turning outwards, backwards, and so inwards, with the tips inclining towards each other.

This species is well known as the "Aoudad" of the Moors, and the "Kebsh" of the Egyptians; it is also, according to Rüppell, the "Tedal" of the inhabitants of Nubia, which is doubtless the same as "Teybal," applied by Burkhardt to the wild goat of that region, in addition to the word "Beden," which (in common with Rüppell and others) he also assigns to the latter.

AOUDAD (Ovis tragelaphus)—*continued.*

Habitat—Mountain-ranges of North Africa.

Length.	Circumference at base.	Tip to Tip.	Habitat.	Owner.
26⅜	10¾	15¼	North Africa ...	British Museum.
26	11	17¾	Do. ...	Do.
26	10⅞	...	Do. ...	Do.
25	10½	15	Do. ...	Blyth, P.Z.S. 1840, p. 76.
23	11⅛	5	Do. ...	British Museum.
22½	10¾	12¾	Do. ...	Lord Edward Cecil.
19⅞	11¼	14¼	Do. ...	British Museum.
19¼	9¼	16¾	Djobel Matlili ...	E. N. Buxton.
18½	11⅝	18½	North Africa ...	Sir Edmund G. Loder, Bart.
18¼	7½	14¼	Do. ...	Rowland Ward's Collection.
18	7¾	15	Do. ...	British Museum.
16¾	7⅞	16¾	Do. ...	Do.
16½	7¼	15	Djobel Matlili ...	E. N. Buxton.
16	7½	17¼	North Africa ...	Blyth, P.Z.S. 1840, p. 76.

ASIA MINOR SHEEP (Ovis gmelini).

Habitat—Persia and Asia Minor.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
40¼	10½	5½	... ...	W. Burchart Barker, British Museum, P.Z.S. Feb. 1880.
36¼	10⅜	5¾	... .	British Museum.
30½	10⅝	18	... ...	Sir Victor Brooke's Collection.
29⅝	9⅛	11¾	... ...	Do.

ASIA MINOR SHEEP (Ovis gmelini)—*continued.*

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
26·10	8½	12·20	... ...	C. G. Danford, P.Z.S. Feb. 1880.
24·40	10	12·80	... ...	Do.
23⅛	9	15½	... ...	Sir Victor Brooke's Collection.
21·40	10¼	21	... ...	British Museum, P.Z.S. Feb. 1880.
20	10	21	... ...	Blyth, P.Z.S. 1840, p. 70.
18½	8½	11	... ...	British Museum, P.Z.S. Feb. 1880.

DOMESTIC SHEEP (Ovis aries).

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
39½	8¾	21	... ...	H. E. Surtees.
35½	8	16⅞	... ...	Sir Victor Brooke's Collection.
33	11	22¼	Yarkund ...	Hume Collection, British Museum.
32	8⅝	27¾	Do. ...	Do.
32	8⅜	17⅞	... ...	British Museum.
28¾	8	21½	Scotland ...	Rowland Ward's Collection.
22⅝	9½	20¼	Yarkund ...	Hume Collection, British Museum.
22⅜	9¼	22½	Do. ...	Do.
18	7¾	16¼	(Fezzan sheep) ...	British Museum.
17⅞ × 14⅛	7⅝ × 4¾	4½ × 6¾	(four horns) ...	Hume Collection, British Museum.
17 × 11¾	6¾ × 5	6 × 8½	Do. ...	British Museum.
13¼ × 10⅞	5¾ × 4½	...	(five horns) ...	Hume Collection, British Museum.
13 × 9⅞	7⅝ × 5	14¾	(four horns) ...	A. O. Hume, Private Collection.
12½	...	...	West Africa ...	British Museum.
12 × 9¾	6½ × 4	17¼	(four horns) ...	A. O. Hume, Private Collection.

MUSK OX (Ovibos moschatus).

Habitat—Arctic Regions.

Length.	Breadth of Palm.	Tip to Tip.	Habitat.	Owner.
27¼	12½	27	North America ...	Earl of Lonsdale.
26⅞	11	27	Barren Ground of Northern Canada.	Warburton Pike.
26¾	12⅛	...	North America ...	J. Rae, British Museum.
26¼	13⅛	27⅝	Do. ...	British Museum.
24¾	11	25½	Barren Ground of Northern Canada.	Warburton Pike.
24½	12⅜	24½	North America ...	British Museum.
24¼	10½	26	Barren Ground of Northern Canada.	Warburton Pike.
24	20 (circumference)	30	North America ...	Earl of Lonsdale.
24	9¾	23⅛	Do. ...	Sir Edmund G. Loder, Bart.
22¾	9¼	19¼	Grinnell Land ...	Capt. W. H. Fielden, British Museum.
22½	8¾ (about)	...	Discovery Bay ...	British Museum.
♀18⅝	4¼	...	North America ...	A. G. Dallas, British Museum.
♀18¼	4⅛	...	Do. ...	Do.
♀16	3½	...	Do. ...	British Museum.

SHOT BY SIR ROBERT HARVEY, BART

ROWLAND WARD
& Co., Limited

CAPE BUFFALO (Bos caffer).

Bechuana name—"Nari."

Lower Zambesi name—"Nyati" or "Njati."

Habitat—Africa.

Greatest Width.		Tip to Tip.	Width of Palm.	Habitat.	Owner.
Inside.	Outside.				
42	...	...	17	Near River Ramokwebani, South Africa.	F. C. Selous, "A Hunter's Wanderings."
...	45½	...	11½	Kilimanjaro, East Africa.	H. C. V. Hunter.
41¼	45¾	37⅛	...	South Africa ...	British Museum.
41	45½	30	...	East Africa ...	W. Astor Chanler.
40⅞	47	...	12¼	Do. ...	F. J. Jackson.
40½	...	26	...	Do. ...	Prince Boris Czetwertynski.
40	...	...	7	Linyanti, River Chobe.	F. C. Selous, "A Hunter's Wanderings."
39¾	45¾	...	12⅛	East Africa ...	H. C. V. Hunter.
39⅝	44¾	27½	11¼	Do. ...	Sir Robert Harvey, Bart.
39	43⅞	29⅛	13½	South Africa ...	F. C. Selous.
38¼	43¼	24½	13¼	Do. ...	Sir John Willoughby, Bart.

CAPE BUFFALO (Bos caffer)—*continued.*

Greatest Width.		Tip to Tip.	Width of Palm.	Habitat.	Owner.
Inside.	Outside.				
...	44	...	...	East Africa ...	Joseph Thomson, "Through Masai Land."
38¼	42⅜	28⅛	13¼	Do. ...	Sir Robert Harvey, Bart.
38	42½	...	12¼	Do. ...	H. C. V. Hunter.
37¼	41¾	29⅝	13	South Africa ...	J. Carr-Saunders.
37¾	43⅝	26½	12¾	East Africa ...	Hon. Walter Rothschild.
37⅛	41½	30	12	Do. ...	Sir Robert Harvey, Bart.
37⅛	41¼	34	12⅜	Do. ...	Do.
37	42	34	...	Do. ...	Prince Stargynski.
37	41½	24	12¾	South Africa ...	W. C. Oswell.
37	40	35	...	East Africa ...	Gen. Mathews.
37	40	32	11⅞	Abyssinia ...	E. Lort-Phillips.
36⅞	41½	28	...	.. ..	British Museum.
36⅞	40¼	30⅞	11¾	East Africa ...	Sir Robert Harvey, Bart.
36¾	41	27⅝	10¼	... ...	Bethnal Green Museum.
36¾	42⅜	29½	12½	.. ..	Sir Victor Brooke's Collection.
36¼	41	...	11¾	East Africa ...	H. C. V. Hunter.
36⅛	41⅛	...	25¾	South Africa ...	British Museum.
36	...	21	(owner's measurement)	... ...	Sir John Willoughby, Bart.
36	42⅛	...	22¼	South Africa ...	British Museum.
36	41½	22	...	Do. ...	A. W. Davis.
36	41¼	29½	11¾	Do. ...	A. Beit.
36	40½	26	...	East Africa ...	Prince Boris Czetwertynski.
36	40	28½	(shot by H. H. Johnson)	South Africa ...	Sir Philip Currie, Bart.
...	41	30	...	... ...	Rowland Ward's Collection.
35⅞	41	28¾	...	Mashona Land	F. C. Selous, British Museum.
35¾	40	...	14⅝	East Africa ...	F. J. Jackson.

CAPE BUFFALO (Bos caffer)—*continued.*

Greatest Width.		Tip to Tip.	Width of Palm.	Habitat.	Owner.
Inside.	Outside.				
35⅝	39¾	30¼	10¾	East Africa ...	Sir Robert Harvey, Bart.
35	40	25	15½	South Africa ...	F. C. Selous.
34⅞	38½	29⅛	13¾	East Africa ...	H. C. V. Hunter.
...	...	26½	...	... ...	J. A. Jameson.
34	39	26	...	... ...	R. P. Carrol.
34	38¼	27⅜	11⅞	South Africa ...	F. C. Selous.
34	along front curve one horn	32½	13½	East Africa ...	T. W. H. Greenfield.
33⅞	39	23⅛	13¼	Do. ...	Sir Robert Harvey, Bart.
33⅞	38¼	26⅝	12¾	Do. ...	H. C. V. Hunter.
33½	37¼	32¾	12½	Do. ...	Sir John Kirk, M.D., K.C.B.
33¼	38¾	...	16	Do. ...	F. J. Jackson.
33	39	21	...	South Africa ...	Rowland Ward's Collection.
32⅝	36½	23¾	12¼	East Africa ...	Sir Robert Harvey, Bart.
32½	37	24½	11½	Do. ...	Do.
32½	38¼	19¾	13	... ...	Sir Edmund G. Loder, Bart.
32	38¾	16	10½ (about)	South Africa ...	A. Beit.
32	36⅝	20⅛	13⅛	East Africa ...	Sir Robert Harvey, Bart.
31⅞	37⅛	23⅝	13	... ...	H.R.H. Duke of Edinburgh.
31½	35¾	24¼	13¼	South Africa ...	Dr. Knight Bruce, Bishop of Mashuna Land.
31¼	35¾	...	12¼	East Africa ...	H. C. V. Hunter.
31	35⅝	24½	12½	Do. ...	Sir Robert Harvey, Bart.
30¾	36	19	10	Do. ...	Sir John Kirk, M.D., K.C.B.
30½	34½	22⅞	14½	Do. ...	Sir Robert Harvey, Bart.
30⅛	33⅜	26¾	...	South Africa ...	British Museum.
29¼	34	...	14⅛	East Africa ...	H. C. V. Hunter.
28⅞	33⅛	22½	10⅝	South Africa ...	Dr. Knight Bruce, Bishop of Mashunaland.

CAPE BUFFALO (Bos caffer)—*continued.*

Greatest Width.		Tip to Tip.	Width of Palm.	Habitat.	Owner.
Inside.	Outside.				
28½	34	...	28¾	Mashuna Land	F. C. Selous, British Museum.
28⅛	32⅞	18⅛	13⅛	East Africa ...	Sir Robert Harvey, Bart.
28	32	22	6⅜	Buse Country ...	F. L. James.
27½	32¾	15½	10¼	East Africa ...	Sir Robert Harvey, Bart.
26½	31½	21¼	9¼	... ...	C. P. V. Aylmer and W. D. James, 1881.
24⅝	28⅜	...	21¾	Algoa Bay ...	British Museum.

CENTRAL AFRICAN BUFFALO (Bos Centralis).

Habitat—North and Central Africa.

Greatest width.		Tip to Tip.	Width of Palm.	Habitat.	Owner.
Inside.	Outside.				
36½	39	34½	...	Soudan	Rowland Ward's Collection.
28¼	31¾	25⅜	8½	Do.	Col. Ralph Vivian.
28	33¼	19	8¾	Do.	Do.
26⅞	31⅜	24⅜	...	Bogos Land, Abyssinia.	British Museum.
25⅝	28½	24	...	Do.	Do.

BUBALUS RECLINUS.

Greatest width.		Tip to Tip.	Habitat.	Owner.
Inside.	Outside.			
18	24¼	11⅜	... ...	British Museum.

ARNEE (Bos buffelus).

Habitat—India.

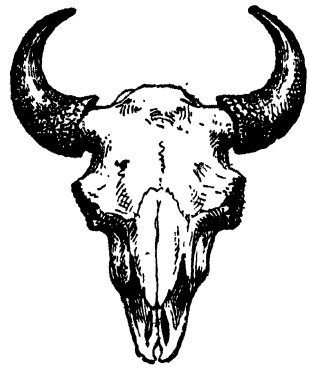
Length Outside Curve.	Circumference at Base.	Tip to Tip.	Widest Inside.	Habitat.	Owner.
77⅜	17⅞	...	(single horn)	India	British Museum.
65¾	20¼	...	...	Assam	Col. J. Mathie, British Museum.
58⅝	12⅜	...	...	India	British Museum.
♀ 58½	13¼	...	...	... ...	Mrs. Hannaford.
58½	12¾	...	...	... ...	British Museum.
58¼	18	42¼	...	... ...	Bethnal Green Museum.
57	(owner's measurement)	...	...	... ...	J. D. Inverarity.

ARNEE (Bos buffelus)—*continued.*

Length Outside Curve.	Circumference at Base	Tip to Tip.	Widest Inside	Habitat.	Owner.
56	15½	55½	58	Kuch Behar ...	Eyre Coote.
55½	18½	29	44	India	J. Carr-Saunders.
54½	18⅛	38¼	48⅞	Do.	Hume Collection, British Museum.
53⅞	12	...	...	... ...	A. O. Hume, Private Collection.
53¼	21	26⅞	...	... ...	Baron de Nolde.
53¼	12⅛	23¼	40⅝	... ...	Hume Collection, British Museum.
53⅛	12½	...	...	Nepal	B. H. Hodgson, British Museum.
53	12⅛	...	...	India	British Museum.
52¾	18¼	30½	44⅛	Do.	Hume Collection, British Museum.
52	16¼	...	...	Do.	British Museum.
51½	16½	...	...	Do.	Do.
51¼	16½	...	...	Do.	Do.
51⅝	18⅛	44⅛	50⅜	Nepal	B. H. Hodgson, British Museum.
50¾	19½	36	...	India	Lieut. St. John Brodrick.
50½	17½	21½	37	Do.	Hon. Walter Rothschild.
50¼	18⅞	...	...	Do.	British Museum.
50	13¼	33	38½	Do.	Noel Fenwick.
49½	12⅛	35⅜	47⅜	Do.	British Museum.
49⅝	17⅝	22	40	Do.	Do.
48⅞	16	...	...	Do.	Do.
47⅝	17⅞	19¾	...	Do.	Do.
47⅛	18	...	...	Do.	Do.
47	16	38½	46¼	Do.	Bethnal Green Museum.
45⅛	12	25½	...	Do.	British Museum.
43¼	18	46¾	49¼	Do.	Major Talbot.
43	16	50	50¾	Do.	H. R. H. Duke of Edinburgh.
42	13¾	33	38½	Do.	Rowland Ward's Collection.

ARNEE (Bos buffelus)—*continued.*

Length outside Curve.	Circumference at base.	Tip to Tip.	Widest inside.	Habitat.	Owner.
40⅛	11¼	35	41	India	British Museum.
39⅝	14¾	35⅛	42	Nepal	B. H. Hodgson, British Museum.
39½	14½	35⅛	41⅞	Do.	Do.
38	16⅛	35½	37c	India	Noel Fenwick.
38	13	25¾	34⅞	Kuch Behar ...	Capt. H. Streatfield.
36¼	11⅛	16¾	24¼	Nepal	British Museum.
35	12	26½	41	India	E. Tennant.
32⅜	11¼	...	...	Nilghiri Hills...	Gen. Hardwicke, British Museum.
30¾	14	22	32	Ceylon... ...	H. E. Lindsey.
29	9⅜	...	...	... ...	British Museum.
26⅜	14¾	28⅛	25	Formosa ...	R. Swinhoe, British Museum.
25¾	11⅛	...	...	... ...	British Museum.
25¼	17⅛	34	...	... ...	Sir Stanford Raffles, British Museum.
25	14⅝	22⅛	25	Formosa ...	R. Swinhoe, British Museum.
22⅞	10¾	17⅞	20⅝	Nepal	B. H. Hodgson, British Museum.
19	7	(owner's measurement)	...	Nicarawettya, Ceylon.	J. H. Mann.

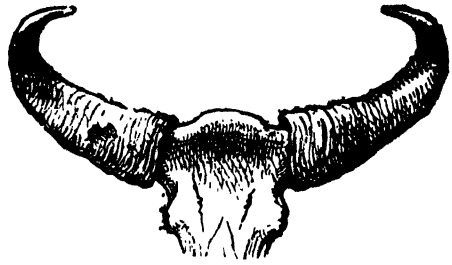


AMERICAN BISON (Bos Americanus).

Now nearly extinct.

Habitat—North America.

Length.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner.
20⅞	15	...	30½	Wyoming ...	Hon. F. Thellusson.
18⅞	14¾	...	16⅞	... ...	The late J. S. Jameson.
17¾	12⅜	15⅛	...	... ...	H.R.H. Duke of Edinburgh.
17½	12	...	25½	... ...	Rowland Ward's Collection.
17⅛	11⅜	10¾	17½	... ...	British Museum.
16⅝	14¼	24	...	... ...	Moreton Frewen.
16½	12⅛	19⅜	Hill Buffalo	... ...	Sir Edmund G. Loder, Bart.
16⅛	15⅞	25¾	...	... ...	Do.
16	11¾	15⅜	...	... ...	F. J. Horniman.
15½	14⅜	...	19¾	Wyoming ...	St. George Littledale.
14	...	12¼	...	... ...	Col. Ralph Vivian.
13⅜	12	...	...	... ...	Hon. Walter Rothschild.
13⅞	12¾	19⅝	...	... ...	J. Carr-Saunders.
12¼	12¼	17¼	17⅜	Mount Yellowstone.	British Museum.



GAUR BISON (Bos Gaurus).

Habitat—India.

Length.	Circumference.	Tip to Tip.	Widest insi le.	Habitat.	Owner.
33¾	17¼	24	...	India ...	J. D. Goldingham, Bethnal Green Museum.
33½	18½	25	33¼	Do. ...	T. W. H. Greenfield.
...	19 (owner's measurement)	...	...	Do. ...	J. D. Inverarity.
31⅞	17⅛	21⅜	32½	Do. ...	A. O. Hume, Private Collection.
31½	18	29	43 (outside)	Do. ...	Bombay Nat. Hist. Society ("Proceedings").
31¼	16⅜	12⅝	27½	Do. ...	J. D. Goldingham, Bethnal Green Museum.
30½	16½	13½	33¼ (outside)	Do. ...	Lieut.-Col. Sandys.
30⅛	17⅞	33⅜	40¼	Do. ...	J. Carr-Saunders.
29⅞	18¼	30	34	Do. ...	Sir Edmund G. Loder, Bart.
29¾	18⅝	25¼	30⅜	Hassanoor Hills, S. India.	Sir V. Brooke's Coll. (Shot by Col. D. Hamilton).
29⅝	18½	16¼	26½	Annamalies, South India.	Do.
29½	18 (owner's measurement)	...	33 (outside)	India ...	J. D. Inverarity.
29¼	12⅞	...	18	Do. ...	Gen. Hardwicke, British Museum.
29⅛	16⅝	20⅜	29¼	Nepal ...	B. H. Hodgson, British Museum.
29	22	(owner's measurement)	...	India ...	Otho Shaw.
28¾	15¾	30⅝	35	Do. ...	British Museum.
28⅝	17⅜	24½	28⅜	Sahaydri Mts., South India.	Capt. W. Thompson, British Museum.

GAUR BISON (Bos gaurus)—*continued.*

Length.	Circumference	Tip to Tip.	Widest inside.	Habitat.	Owner.
28 3/4	18	25 3/8	31 1/4	Annamalies, South India.	Sir V. Brooke's Coll. (Shot by Col. D. Hamilton.)
28 5/8	15 3/4	37 3/4	40 1/2	India ...	A. O. Hume, Private Collection.
28 1/2	15 1/4	18 5/8	28 5/8	Do. ...	Maj.-Gen. Arthur Ellis, C.S.I.
28 1/2	15 1/4	17	27	Do. ...	Hume Collection, British Museum.
28 1/4	18	15 3/4	(owner's measurement)	Do. ..	F. W. Wodehouse.
28 1/4	18 1/8	24 1/4	31 1/2	... ...	Hume Collection, British Museum.
28	17	24 3/8	31 5/8	Palnis, India	Sir V. Brooke's Coll. (Shot by Col. D. Hamilton.)
28	15 1/4	19 1/4	30	Annamalies, South India.	Do.
28	16	10 1/4	24	India ...	Martyn Kennard.
27 7/8	18 1/8	20 1/4	27 5/8	Annamalies, South India	Sir V. Brooke's Coll. (Shot by Col D. Hamilton)
27 7/8	17 1/8	32 1/4	32 1/4	India ..	Major Cumberland.
27 3/4	16 5/8	32 1/2	36	Do. ..	Hume Collection, British Museum.
27 1/2	18 5/8	18 5/8	28 5/8	Do. ..	Do.
27 3/8	14 1/2	21 3/8	28 5/8	Do ..	Dr. Falconer, British Museum.
27	18	19 1/2	27 1/2	Annamalies, South India	Sir V Brooke's Coll. (Shot by Col D. Hamilton.)
27	16	16	..	.. ..	Rowland Ward's Collection.
26 7/8	15 7/8	16 1/4	27	India ..	Hon. Walter Rothschild.
26 5/8	13 1/4	10 5/8	20 5/8	Do. ..	British Museum.
26 1/2	16 1/4	18 1/2	26 5/8	Madras ..	Dr. Christie, British Museum.
26 1/2	15 1/2	16	..	India ...	Rowland Ward's Collection.
26 3/8	14 7/8	13 5/8	24 1/4	Sahaydri Mts, South India.	Capt. W. Thompson, British Museum.
26	17 1/4	19 3/8	...	India ...	Lord Wolverton.
26	16 7/8	27	30 1/8	Bori Forest, Hosangobod, Cent. Provs.	Sir John H. Morris, K.C.S.I.
25 3/4	15 3/4	26 1/2	29 5/8	... ...	Hume Collection, British Museum.
25 3/4	16 5/8	20 7/8	26 3/4	Malay Peninsula.	H. C. V. Hunter.
25 1/2	17 1/2	19	...	Straits Settlements.	T. S. Thompson.

GAUR BISON (Bos gaurus)—*continued.*

Length.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner.
25⅝	13⅝	19¼	26¾	West Siam ...	British Museum.
25⅜	15¼	13⅝	25⅛	India ...	Major A. A. Kinloch, British Museum.
25¼	13¼	19½	26⅝	Rajhpootna	Col. J. Evans, British Museum.
25¼	15⅜	19½	26⅞	Mysore ...	Bosworth Smith, British Museum.
25	15	14½	...	Straits Settlements.	T. S. Thompson.
24¾	17	34½	34¾	Annamalies, South India.	Sir V. Brooke's Coll. (Shot by Col. D. Hamilton.)
24½	16	28½	...	... ...	Hume Collection, British Museum.
24	18 (owner's measurement)	34	38½ (outside)	India ...	J. D. Inverarity.
24	16	25½	30⅛	... ...	Hume Collection, British Museum.
23¾	15⅞	20⅛	25⅝	Nepal ...	B. H. Hodgson, British Museum.
23½	14⅝	28	31¾	... ...	H. C. V. Hunter.
23¼	15⅛	20	25⅜	South India	Sir Victor Brooke's Collection.
23¼	12¾	13¼	...	... ...	A. O. Hume, Private Collection.
22½	16	21	...	... ...	Surgeon-Major Briggs.
22⅛	15	15⅞	22¼	Malay Peninsula.	British Museum.
21⅞	15½	18⅝	23⅛	India ...	Capt. W. E. Robinson, British Museum.
♀ 21⅞	11½	7⅝	18	West Ghauts	Capt. W. Thompson, British Museum.
21⅝	14⅞	20	25¼	Nepal ...	B. H. Hodgson, British Museum.
21½	17	22½	...	... ...	Rowland Ward's Collection.
21⅛	16	26¼	29	India ...	Major Talbot.
21⅛	11⅞	15	20⅜	Mysore ...	Bosworth Smith, British Museum.
20½	15	12	...	India ...	Rowland Ward's Collection.
20⅜	11⅝	5⅝	16⅛	Do. ...	British Museum.
18⅛	10⅞	10¾	17⅝	Do. ...	R. C. Beavan, British Museum.
17⅝	10⅞	13⅝	17⅛	West Central India.	Major A. A. Kinlock, British Museum.
17¼	11¾	7¾	15½	... ...	B. H. Hodgson, British Museum.
...	19	19	...	... ...	Col. G. P. Sanderson, "Wild Beasts of India."

GAYAL (Bos frontalis).

Habitat—Assam Chittaging Districts.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
15	11½	26⅜	North India ...	British Museum.
12⅝	13¼	27¾	India	Do.

DWARF BUFFALO (Bos pumillus).

[Sir VICTOR BROOKE, Bart., P.Z.S. 1875, p. 455.]

FEMALE about three years of age, all the permanent incisors except the two external teeth being in place (*Zoological Gardens*, Antwerp, received from Senegal) :—

Hair harsh, on the body and limbs of moderate length, longer on the withers and upper and under parts of the neck; general colour bright yellow; on the shoulders and anterior parts of the body there is a strong tinge of brown, caused by an intermixture of brown and yellow hairs; on the flanks and belly the yellow shades gradually into deep rufous; upper parts and sides of the head and neck pure yellow, lower surface of head and neck paler; entire upper and lower lip, fore limbs from above the carpi, and hind limbs from below the tarsi downwards black; ears about 10 in. in length and 6 in. in breadth, narrowed gradually towards their tips, which, from their flexibility and length, curl back upon the ear-conches; internally the upper rim of the ear-conch is covered by pure yellow hair of about 5 in. length, hair of similar length and colour forming two marked lines along their inner surface; hair on the lower rim of the ear-conch and on the tip black; tail bare, excepting the terminal tuft, which is black.

Height at the shoulder about 42 in.; horns slightly compressed at their bases, and directed upwards; the head is remarkably long in proportion to the body, which is compact and powerful, the limbs short.

MALE, ADULT.—Generally darker than the female (Du Chaillu); horns greatly compressed from above downwards and broad at their bases, which are transversed in unworn specimens by numerous sharply-marked irregular ridges; beyond these ridges the horns are suddenly contracted into round smooth points, which are directed upwards and sometimes boldly backwards.

The basal portion of the horn in most *adult* specimens rises slightly but decidedly from the horizontal upon leaving the skull; in other specimens, however, as for example in the type, the entire horn is directed upwards; length of horns round the curve about 21 in., their diameter at the base 7 in.

FEMALE, ADULT.—In the female the horns are much less compressed at the base than in the male; as in the male the direction of the points of the horns is very variable; length of horns round the curve 17 in., their diameter at the base 4¼ in.

RANGE.—Western Equatorial, and the northern parts of Central Africa.

Habitat—Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
21⅛	12¾	2¼	West Africa ...	British Museum.
18¼	10¾	5½	Central Africa ...	Col. Denham and Col. Clapperton. British Museum.
17	11⅜	6¾	Do. ...	Do.
14¼	12¼	10⅝	... ...	Sir Victor Brooke's Collection.
13½	13⅝	13¾	... ...	Do.
10⅝	9⅜	10⅞	Gambia ...	Earl of Derby, British Museum.

BOS BRACHYCEROS.

Habitat—Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
15¾	11	9¼	... ...	Sir Edmund G. Loder, Bart.
14⅞	9⅝	7⅞	West Africa ...	British Museum.
13⅛	8⅞	7	Do. ...	Do.
11¾	8½	9⅞	... ...	Sir Edmund G. Loder, Bart.

BOS DANTE.

Habitat—Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
13⅞	10¼	28½	Gambia	Earl of Derby, British Museum.

BOS MANUS.

Habitat—Africa.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
14⅝	8⅛	⅞	Sette Cama, West Africa.	British Museum.
8½	5⅝	13⅜	Do.	Do.
7⅜	6¼	8¼	Do.	Do.

ZEBU (Bos indicus).

Habitat—India.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
17⅛	10¾	25¼	India	British Museum.

YAK (Bos grunniens).

Habitat—Tibet.

Length.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner
38¼	17	19	31½	... ...	Hume Collection, British Museum.
34⅞	15	16	27¾	... ...	Do.
34	12	20½	...	... ...	Hon. Walter Rothschild.
32⅜	13⅜	16½	26⅜	... ...	British Museum.
32	13⅞	15¼	22¼	... ...	H. C. V. Hunter.
30¾	13½	10½	...	... ...	Sir Robert Harvey, Bart.
29¾	14	12	25⅛	... ...	Hume Collection, British Museum.
29½	12	...	...	... ...	Capt. G. Campbell.
28¼	14	17⅞	26⅛	India	Capt. E. Smyth, British Museum.
27⅞	11¾	18⅜	27⅜ (wild)	Nepal	B. H. Hodgson, British Museum.
27½	12⅞	14¾	23¾	... ...	Hume Collection, British Museum
26½	10⅞	19	22¾ (wild)	... ...	British Museum.
26	13½	18¾	23½	... ...	J. Carr-Saunders.

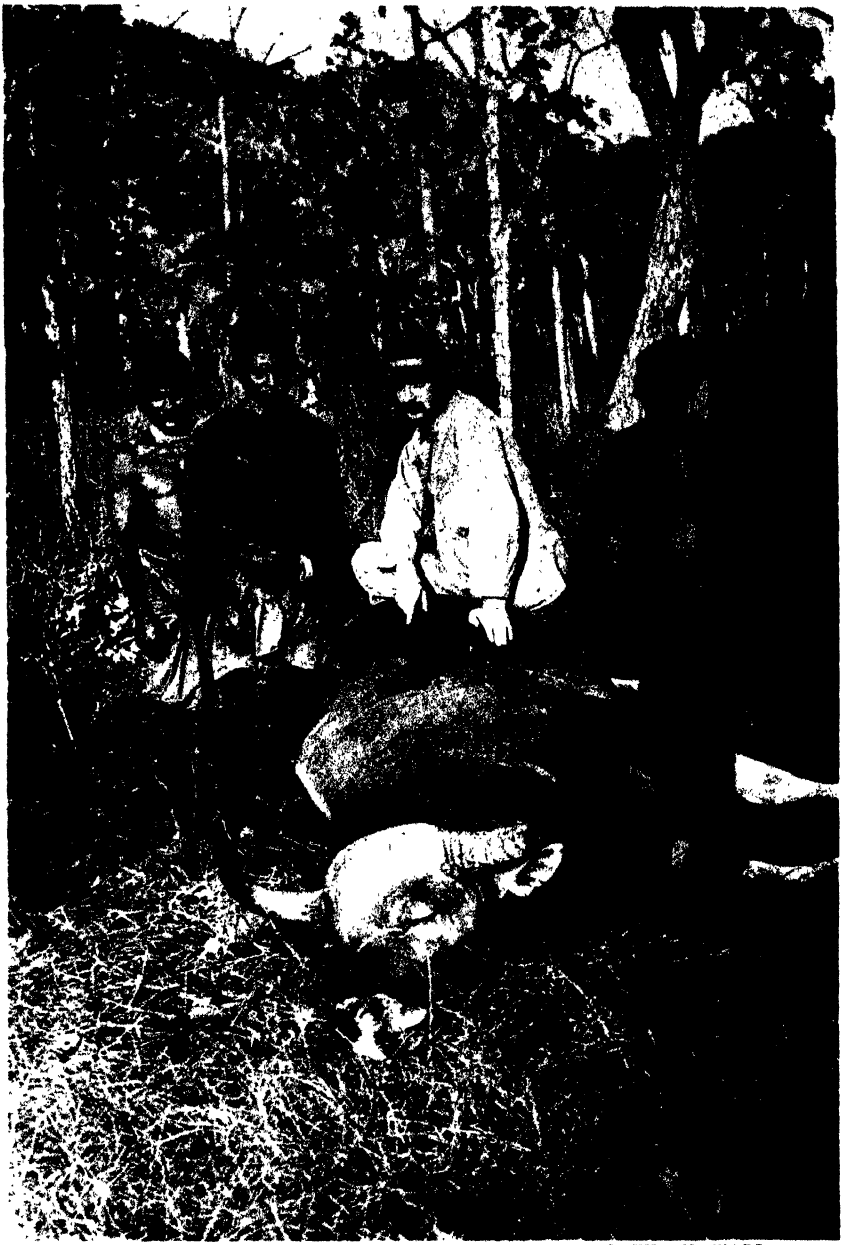
YAK (Bos grunniens)—*continued.*

Length.	Circumference	Tip to Tip.	Width inside	Habitat.	Owner.
22⅜	10⅝	12½	19⅜ (wild)	Nepal	B H. Hodgson, British Museum.
19⅛	9¼	14¾	16⅞ (domestic)	Do	Do.
16⅞	6½	3⅜	12⅜ (domestic)	Do	Do.
16¾	9	23¾	23¾ (domestic)	Do	Do.
13⅜	5⅝	16⅜	. (domestic)	. . ..	British Museum.
11¾	6⅝	9¼	11½ (domestic)	Nepal . .	B H Hodgson, British Museum.

JAVA OX (Bos banting.)

Habitat—Java.

Length.	Circumference	Tip to Tip	Widest inside	Habitat	Owner
24¼	12¼	15¼	24¼	Java	British Museum
21⅜	12¼	13⅛	19¼	Borneo	H B Low, British Museum.
20⅜	12¼	18⅛	22⅛	Do	Do.
19¼	11¼	10⅛	15¼	Do	Do
18¼	10⅞	14½	18⅝	Do	Do
18	12¼	13⅜	16⅝	Do	Do
17⅞	11	2¾	11¼	Do	Do
17⅝	10⅛	7⅛	14¼	British North Borneo	W Pryer, British Museum.
17½	10⅛	17¼	20¾	Siam .	H C V Hunter. (See Illustration.)
17½	9⅞	15¾	17¾	India .	British Museum.
16½	10¾	9½	13⅜	Sarawak ..	Do
15⅞	10⅛	15¼	16⅛	Borneo	H. B Low, British Museum.
15⅞	9⅜	17¼	.	.	British Museum.
14⅞	10¾	8⅞	13⅛	Borneo	H. B. Low, British Museum.



SHOT BY H. C. Y. HUNTER

ROWLAND WARD & Co., LIMITED.

JAVA OX.

BOS BANTING.

SONDAIC OX (BANTENG) (Bos sondaicus).

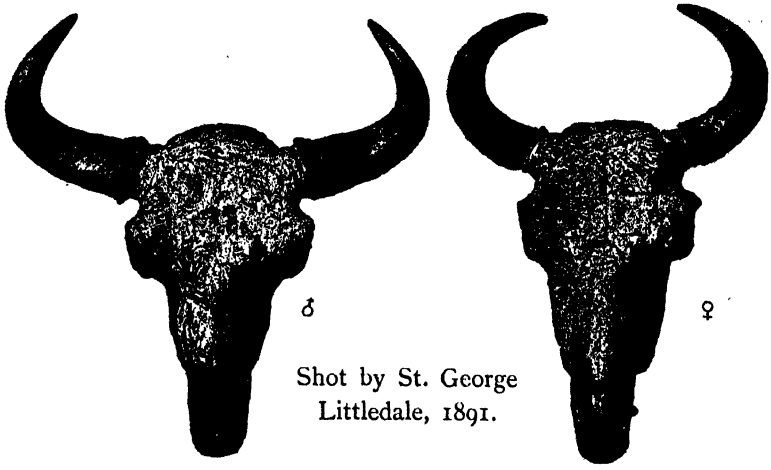
Habitat—Java.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
5¼	5⅝	6¼	Java	British Museum.

ANOA (Bos depressicornis).

Habitat—Celebes.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
12⅜	6	6½	Celebes	British Museum.
12¼	6¼	8¾	Do.	Do.
11⅞	5⅞	7	Do.	Do.
11½	5⅜	7¼	Do.	Gen. Hardwicke, British Museum.
10½	6⅛	4⅞	Do.	British Museum.
10	5⅞	5⅝	Do.	Sir Victor Brooke's Collection.
8⅞	4⅜	4¾	Do.	Sir Edmund G. Loder, Bart.
7⅝	4⅜	4	Do.	British Museum.
5⅝	4¼	5	Do.	Do.



Shot by St. George Littledale, 1891.

AUROCHS (Bos urus).

Habitat—Lithuania.

Length.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner.
18¼	12⅛	13¾	19¼	Lithuania ...	British Museum. (Presented by the Emperor of Russia.)

DOMESTIC OX (Bos taurus).

Length.	Circumference.	Tip to Tip.	Widest inside.	Habitat.	Owner.
81¼ × 78½	18¼	103½	...	Lake 'Ngami ...	W. C. Oswell.
47	15⅝	21⅛	...	Abyssinia (Galla Ox)	H. Salt, British Museum.
44	12⅞	70½ (about)	...	... ...	British Museum.

DOMESTIC OX (Bos taurus)—*continued.*

Length.	Circumference.	Tip to Tip.	Width Inside.	Habitat.	Owner.
42⅛	23⅝	22⅛	...	Central Africa ...	Col. Denham, British Museum.
41¾	14	52¾	...	Madagascar ...	Bethnal Green Museum.
40¼	12¼	60⅞	...	Vienna (Polish Bull)	British Museum.
38⅝	15⅞	33	...	... ...	Do.
38½	10½	54¾	...	Italy	Bethnal Green Museum.
35¾	12¾	59½	...	Cape of Good Hope	Do.
30⅛	12⅜	35	...	Spain	Do.
29⅜	11⅛	28⅞	...	Gambia... ...	Earl of Derby, British Museum.
18½	10⅜	20	21⅛	Chillingham Park	Earl of Tankerville, British Museum.
♀ 18¼	7	10⅛	15⅜	Do.	Do.
17½	10⅜	30½	...	Buenos Ayres (Niata Cattle).	G. Claraz, British Museum.
17¼	10¼	25⅛	...	Gambia... ...	Early of Derby, British Museum.
15¼	9⅝	17⅜	18⅛	Northumberland	Duke of Hamilton, British Museum.
12⅛	8	16⅛	...	Angola, West Africa	Sir Victor Brooke's Collection.
12⅛	6⅛	16¾	16⅞	England ...	British Museum.
11½	7½	(single horn)	...	Nepal	B. H. Hodgson, British Museum.
8⅛	8	18¼	...	Do.	Do.

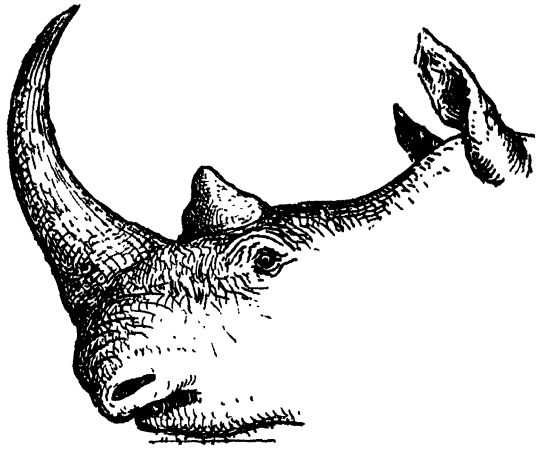
INDIAN RHINOCEROS (Rhinoceros unicornis).

Habitat—India.

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
24	...	...	... ...	T. C. Jerdon, "Mammals of India."
19⅛	22⅜	...	India	British Museum.
5½	14½	...	Kuch Behar ...	Capt. Henry Streatfield.

SHOT BY SIR ROBERT HARVEY, BART.

ROWLAND WARD



AFRICAN RHINOCEROS (Rhinoceros bicornis).

Bechunana Name—"Borele."

Habitat—Africa.

Length.		Circumference.		Habitat.	Owner.
Front Horn.	Rear Horn.	Front Horn.	Rear Horn.		
*56½	...	23½ (about)	...	... ...	British Museum.
54	...	...	...	South Africa ...	F. C. Selous (has seen).
*44	...	20	...	... ...	British Museum.
44	...	...	...	East Africa ...	F. Holmwood.
43	...	...	...	... ...	F. C. Selous, "A Hunter's Wanderings."
†42¾	...	25⅝	...	Limpopo, South Africa.	W. C. Oswell.
41	...	...	...	East Africa ...	F. Holmwood.
*40	...	15¾	...	... ...	British Museum.
40	...	...	...	East Africa ...	F. Holmwood.
38¾	...	21	...	... ...	Hon. Walter Rothschild.
♀ *38⅝	...	24½	...	... ...	W. C. Oswell.

* Rhinoceros simus (White or Burchell's Rhinoceros). † Rhinoceros oswellii.

AFRICAN RHINOCEROS (Rhinoceros bicornis)—*continued.*

Length.		Circumference.		Habitat.	Owner.
Front Horn.	Rear Horn.	Front Horn.	Rear Horn.		
38½	...	19	...	Masai Land ...	Sir John Kirk, M.D., K.C.B.
*37⅜	17⅞	27⅛	..	South Africa ...	F. C. Selous.
*37¼	...	24	...	... ...	British Museum.
35	...	15⅛	...	Masai Land ...	Sir John Kirk, M.D., K.C.B.
*33½	...	21	...	... ...	British Museum (Sir Hans Sloane's Museum).
*33⅜	...	22	...	... ...	British Museum.
*33	13⅛	23¼	...	... ...	F. C. Selous.
*32¾	...	27½	...	... .	The late J. S. Jameson.
♂*32¾	...	27	..	... ...	W. C. Oswell.
†31½	...	...	...	... .	Dr. J. E. Gray, P.Z.S. 1854, p. 250.
31	...	18	...	East Africa ...	R. P. Cariol.
31	19½	16	16⅛	Do.	H. C. V. Hunter.
‡31	...	...	...	Central South Africa.	P.Z.S. 1853, p. 46.
*30¾	...	19⅜	...	.. ..	British Museum.
30½	...	21¼	...	Zambezi Valley ...	Sir John Kirk, M.D., K.C.B.
29	...	19	...	East Africa ...	H.H. Prince Boris Cretwertynski.
*28⅞	9	22⅝	19¼	Lake 'Ngami ...	W. C. Oswell and Col T. Steele, British Museum
28¾	15¼	17⅛	17⅜	East Africa ...	H. C. V. Hunter.
28¼	8⅜	18⅛	..	... .	F. C. Selous.
28	...	26¼	...	... ...	W. Fitzherbert.
27⅞	...	12⅛	..	... .	J. Carl-Saunders.
27¾	...	14	...	... ...	Do
27	...	20½	...	East Africa ...	E. Gedge.
27	16½	17⅞	17½	Do.	Sir Robert Harvey, Bart.
27	12	...	...	Do.	Sir John Willoughby, Bart., "East Africa and its Big Game."
26	...	23	...	Do.	Do.

* Rhinoceros simus (White or Burchell's Rhinoceros). † Rhinoceros crossii. ‡ Rhinoceros oswellii.

AFRICAN RHINOCEROS (Rhinoceros bicornis)—*continued.*

Length.		Circumference.		Habitat.	Owner.
Front Horn.	Rear Horn.	Front Horn.	Rear Horn.		
*25⅝	...	18⅜	...	East Africa ...	British Museum.
25½	11⅜	19½	...	Do.	Sir Robert Harvey, Bart.
25⅜	9½	17⅜	...	Do.	F. J. Jackson.
23⅞	13½	16⅝	17¾	Do.	Sir Robert Harvey, Bart.
23	...	22¾	...	South Africa ...	W. C. Oswell.
23	...	...	...	... ...	Sir Samuel Baker, F.R.S., "Wild Beasts and their Ways."
22⅞	11½	16⅜	...	East Africa ...	F. J. Jackson.
22¾	...	19¼	...	Do.	W. Astor Chanler.
22¾	8⅝	17	...	Zambezi Valley ...	Sir John Kirk, M.D., K.C.B.
22¼	11½	17	...	East Africa ...	Sir Robert Harvey, Bart.
22	17⅞	16¾	15¼	Do.	Sir John Kirk, M.D., K.C.B.
21¾	9⅜	19⅛	...	Do.	Sir Robert Harvey, Bart.
21½	18¾	22⅛	20½	South Africa ...	Sir A. Smith, British Museum.
21⅜	17	14	16	Abyssinia ...	British Museum.
20⅛	8⅜	16¼	...	East Africa ...	Sir Robert Harvey, Bart.
19⅞	7¾	18¾	...	Do.	Do.
17½	7¾	19¼	19⅞	Abyssinia ...	British Museum.
16¾	...	15⅞	...	Soudan	Col. Ralph Vivian.
16⅜	12⅝	13¾	14¾	Abyssinia ...	W. Jessel, British Museum.
16	...	17½	...	Soudan	Col. Ralph Vivian.
15⅞	10	19⅝	19¾	Do.	Do.
15¾	...	20¼	...	South Africa ...	W. C. Oswell.
14⅝	14¾	17	...	East Africa ...	Sir Robert Harvey, Bart.
13⅝	9	15⅜	16½	Abyssinia ...	British Museum.
11½	4½	13⅞	12½	South Africa ...	Earl of Derby, British Museum.
10	6 × 3	(3 horns)	...	... ...	Sir John Willoughby, Bart., "East Africa and its Big Game."

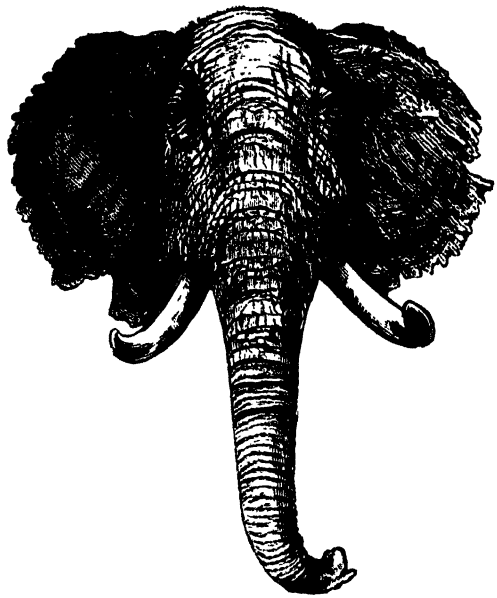
* Rhinoceros simus (White or Burchell's Rhinoceros).

SUMATRAN RHINOCEROS (Rhinoceros sumatrensis).

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$32\frac{1}{8}$	$17\frac{3}{8}$	...	... ...	British Museum.
$27\frac{1}{8}$	$17\frac{7}{8}$	...	... ...	Do.
$9\frac{3}{8}$	$14\frac{3}{4}$	...	... ...	Do.

JAVAN RHINOCEROS (Rhinoceros sondaicus).

Length.	Circumference.	Tip to Tip.	Habitat.	Owner.
$10\frac{5}{8}$	$19\frac{5}{8}$	...	Java	British Museum.



ELEPHANT.

LARGEST elephant ever killed by Col. G. P. Sanderson, vertical height at shoulder 9 ft. 7 in.; length from tip of trunk to tip of tail 26 ft. 2½ in.; tusks protruding from gum 2 ft. 4½ in.; tusks when taken out 5 ft.; tusk circumference at gum 1 ft. 4½ in.; tusk weight of each

Indian Elephants at Zoological Society's Gardens (P.Z.S. 1879 and 1881).

	Height at Shoulder.				Circumference of Front Feet above the Toes.				Weight.							
	1879.		1881.		1879.		1881.		1879.				1881.			
	ft.	in.	ft.	in.	ft.	in.	ft.	in.	tons	cwt.	qrs.	lbs.	tons	cwt.	qrs.	lbs.
Jung Pacha ...	7	0	8	0	3	8	4	0	2	3	0	23	2	17	1	23
Suffa Culli ...	6	10	7	6	3	8	3	9	2	2	3	11	2	11	0	23
Rustom ...	6	0	6	4	2	11	3	2	1	3	3	26	1	6	0	0
Omar ...	6	2	7	0	3	2	3	6	1	7	1	5	1	15	1	21

Height of African Elephant, foot to shoulder, 10 ft.; F. C. Selous, "A Hunter's Wanderings."

Dimensions of Male Elephant killed on Lake Nyassa, 9th September, 1861 (Dr. Kirk, P.Z.S. 1864, p. 655).

	ft.	in.		ft.	in.
Height at withers	10	3	Horizontal diameter of ear ...	3	0
Circumference of fore foot	5	1	Perpendicular do. ...	5	9
From tip of trunk to crown of head	9	0	Semicircumference of belly ...	9	0
Crown of head to insertion of tail ...	12	0	Do. of chest ...	7	10
Length of tail	4	2	Each tusk weighed about 30 lbs.		

Dimensions of Elephant brought from South Africa by H.R.H. the Duke of Edinburgh.

	ft.	in.		ft.	in.
Height at withers	10	0	Circumference of head	10	0
From tip of trunk to tip of tail ...	23	5	From ear to ear	9	0
Girth	16	6	Length of ear	4	6
From top of head to end of trunk ...	11	3			

The weight of the entire elephant in the flesh was 4 tons 8 cwt. 4 lbs.

The skull and tusks weighed more than 3 cwt.; the weight of the whole skin when taken from pickle 20 cwt. 6 lbs.

Weight of a Baby Elephant, when born, about 213 lbs.

Period of gestation, 629 days.

SHOT BY T. W. H. GREENFIELD

ROWLAND WARD
& Co., Limited

AFRICAN ELEPHANT.

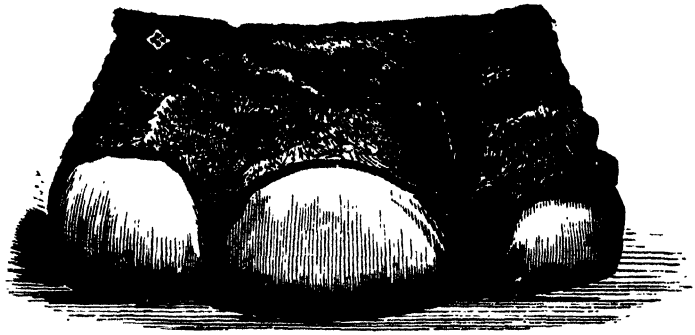
THIS formed part of the Trophy of His Highness the Maharajah of Kuch Behar exhibited at the Indian and Colonial Exhibition, 1886.

ELEPHANT TUSKS.

Length (outside curve).	Greatest Circumference.	Weight.	Habitat.	Owner.
ft. in.	in.	lb.		
9 5	22½	184	Africa	Sir Edmund G. Loder, Bart.
...	...	172	... ...	Sir Samuel Baker, "Wild Beasts and their Ways."
9 4	20½	160	Africa	Sir John Kirk, M.D., K.C.B.
9 4 (tip broken)	18	110	South Africa ...	Rowland Ward's Collection.
8 11	17¼	90	... ...	H.M. the Queen, Bethnal Green Museum.
...	...	74	South Africa ...	F. C. Selous, "A Hunter's Wanderings."
8 3	18¾	81½	East Africa ...	T. W. H. Greenfield.
8 2	18¾	80	Do. ...	Do.
8 0	16⅞	90	South India (Hassanoor Forest).	Sir Victor Brooke, Bart., and Col. Douglas Hamilton, 1863.
7 9	17⅜	86	... ...	H.M. the Queen, Bethnal Green Museum.
7 9	19	103	Africa	Rowland Ward's Collection.
7 6½	21¼	...	South Africa ...	W. C. Oswell.
7 1½	20½	...	Africa	Rowland Ward's Collection.
7 0⅛	17⅛	...	East Africa ...	F. J. Jackson.
7 0	18 (about)	...	South Africa ...	Cetywayo's peace offering in 1879 to Lord Chelmsford.
6 11	16	60	Siberia ...	Bethnal Green Museum.
6 10	17⅛	65½ (Age 88 to 100)	India	J. D. Goldingham, Bethnal Green Museum.
6 9	17¼	...	East Africa ...	F. J. Jackson.
6 8	17⅛	76	... ...	H.M. the Queen, Bethnal Green Museum.
6 7	16⅛	...	South Africa ...	F. C. Selous.
6 6	16⅝	63½	India	J. D. Goldingham, Bethnal Green Museum.
6 4	...	72	... ...	H.M. the Queen, Bethnal Green Museum.
6 1 (spiral tusk)	7½	...	Masailand ...	Sir J. Kirk, M.D., K.C.B.
6 0	...	50	Madras ...	J. Fortune.

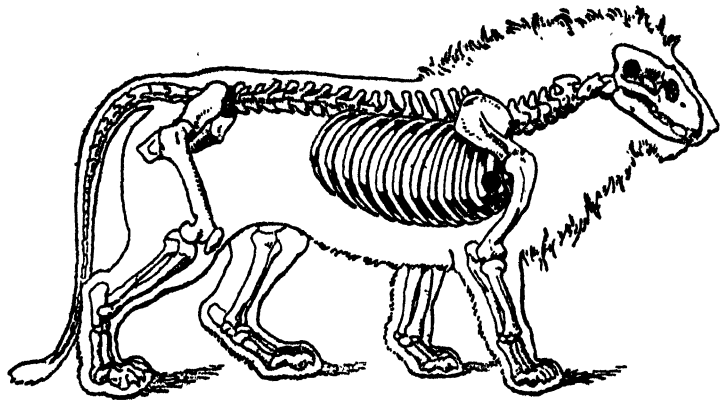
ELEPHANT TUSKS—*continued.*

Length (outside curve).		Greatest Circumference.	Weight.	Habitat.	Owner.
ft.	in.	in.	lb.		
5	11	(tusk straight)	52	... ...	H.M. the Queen, Bethnal Green Museum.
5	10	(owner's measurement)	...	Borneo ...	C. M. D. Stewart.
5	10	16⅛	...	White Nile ...	Sir S. Baker, Bart., British Museum.
5	6½	13¼	...	India	H.R.H. the Duke of Edinburgh.
5	5⅞	13¼	...	Do.	Do.
5	3	16	...	... ...	Sir Victor Brooke's Collection.
5	0	12½	35	Mammoth ...	T. Dupeen, Bethnal Gn. Museum, dredged off coast of Yarmouth.
5	0	...	...	... ...	Col. G. P. Saunderson, "Wild Beasts of India."
4	11	16½ (at gum mark)	...	India	Do.
4	8½	12¼	...	Borneo ...	C. M. D. Stewart.
4	8	16¾	...	... ...	Sir Victor Brooke's Collection.
4	7	14⅛	27¾ (age 40)	India	J. D. Goldingham, Bethnal Green Museum.
4	6	13¾	26¾ (age 40)	Do.	Do.
4	5	10	...	East Africa ...	W. Astor Chanler.
4	3½	15¼ (protruding from skull)	...	... ...	Sir Edmund G. Loder, Bart.
3	11	15⅛ (protruding from skull)	...	India	British Museum.
3	6⅞	12½ (protruding from skull)	...	Do.	Do.
3	5⅞	15⅞ (protruding out of skull, mounted head)	...	South Africa ...	The late J. S. Jameson.
3	3	18	49	South India (Hassanoor Forest).	Sir Victor Brooke, Bart., and Col. Douglas Hamilton, 1863.
2	10½	11⅝ (protruding from skull)	...	South Africa ...	British Museum.
2	5⅝	15 (protruding from skull)	...	India	Do.
1	6	4⅜ (protruding from skull)	...	Sumatra ...	Do.
...		...	35	East Africa ...	Joseph Thomson, "Through Masai Land."



ELEPHANT FEET.

Circumference at base.	Width at bottom back to front.	Habitat.	Owner.
62½	20	India	J. Fortune.
54	18½	Somali Land ...	Capt. J. S. Ashby.
53⅞	18½	South Africa ...	The late J. S. Jameson.
53½	18	Ceylon	H. Storey.
53¼	18¼	South Africa ...	The late J. S. Jameson.
52½	19	Somali Land ...	Capt. J. S. Ashby.
52½	17	Ceylon	H. E. Lindsey.
52½	17	Do.	Rowland Ward's Collection.
51½	...	Do.	Capt. C. Hill.
50	17	Do.	H. E. Lindsey.
49¼	16½	East Africa ...	W. Astor Chanler.
49	...	Ceylon	Capt. C. Hill.
48⅞	16⅛	East Africa ...	H. C. V. Hunter.
48⅝	16	Do.	Do.
45½	15½	Mysore	W. G. Deeds.
45	17	India	R. Stirling.
44¾	14¾	Soudan	Col. Ralph Vivian.
44	14	Ceylon	J. B. Gardyne.
43½	13½	Do.	Do.



LION (Felis leo).

Habitat—India (nearly extinct) and Africa.

F. C. Selous, in "A Hunter's Wanderings," says weight 500 lb. "The Field," July 13th, 1890, weight 563 lb.

Weight, one killed by J. S. Jameson in Mashuna Land, South Africa, November 1887, 385 lb.

Length from tip of nose to end of tail, dressed.		Description.	Habitat.	Owner.
ft.	in.			
11	2	Good mane ...	British East Africa	E. Gedgé.
10 (owner's measurement)	10	... ...	South Africa ...	F. C. Selous.
10	6	Fine black mane	Somali Land ...	Col. A. Paget.
10	5	Do. ...	Do. ...	Do.
10	4	Do. ...	Do. ...	Ernest Horn.
10	4	Fair mane ...	Do. ...	Lord Delamere.
10	3	Good mane ...	Do. ...	Surg.-Maj. W. O. Wolseley.
10	2¾	Dark mane ...	Do. ...	C. H. Villiers.
10	2½	Do. ...	Do. ...	E. Lort-Phillips.
10 (pegged out)	3	... ...	... ...	F. C. Selous, "A Hunter's Wanderings."
10	2½	Light mane ...	Somali Land ...	Lord Delamere.

LION (Felis leo)—*continued.*

Length from tip of nose to end of tail, dressed.		Description.	Habitat.	Owner.
ft.	in.			
10	2	Good mane ...	Somali Land ...	Lord Delamere.
10	0	Fine mane ...	Do. ...	Do.
9	9½	Darkish mane ...	Do. ...	Do.
9	8½	Fair mane ...	Do. ...	Do.
9	8½	Fair lightish mane	Do. ...	Surg.-Maj. W. O. Wolseley.
9	8	Fine black mane	East Africa ...	A. C. Fountaine.
9	7	Slight light mane	Somali Land ...	Lord Delamere.
9	6½	Fine mane ...	Do. ...	Surg.-Maj. W. O. Wolseley.
9	5½	Fine black mane	Do. ...	Rowland Ward's Collection.
9	3	Fine mane ...	Do. ...	J. D. Inverarity.
♀9	2	... ...	Do. ...	Lord Delamere.
9 (owner's measurement)	1	... ...	Do. ...	J. D. Inverarity.
♀8	11	... ...	Do. ...	Lord Delamere.
8	11	Slight light mane	Do. ...	Surg.-Maj. W. O. Wolseley.
8	10	Fine black mane	Do. ...	Col. A. Paget.
8	10	Slight light mane	Do. ...	Lord Delamere.
8 (owner's measurement)	8	... ...	Do. ...	J. D. Inverarity.
♀8 (owner's measurement)	3	... ...	Do. ...	Do.

LION SKULLS (Felis leo).

Length between two lines.	Width between two lines.	Weight, cleaned.	Habitat.	Owner.
16 (end broken)	10¼	5 lb.	East Africa ...	E. Gedge.
15	10	...	Somali Land ...	Col. A. Paget.
13¾	9⅜	4 lb. 12 oz.	Do. ...	Do.

Length from nose to tip of tail
before skinning 10ft 1½in
dried skin 11 - 7 -

TIGER (Felis tigris).

Habitat—Eastern Asia.

Length before skinning.	Length after dressing.	Width.	Weight.	Habitat.	Owner.
ft. in.	ft. in.	ft. in.	lb.		
...	13 6	...	...	Chinese Mongolia.	A. Bignold.
10 2½	...	(owner's measurement)	540	... ...	Maharajah of Kuch Behar, 1890.
10 2½	...	Do.	493	... ...	Do. 1891.
10 1½	11 7	5 10	...	... ...	Do.
...	11 7	...	...	... ...	H. R. H. Duc d'Orleans.
10 0	...	(owner's measurement)	445	... ...	Maharajah of Kuch Behar.
10 0	...	Do.	...	... ...	Maharajah of Tikumgurh.
9 8	...	Do.	467	... ...	Maharajah of Kuch Behar.
9 7	11 4	Do.	437	... ...	Sir Samuel Baker, F. R. S.
9 6	...	Do.	455	... ...	Maharajah of Kuch Behar.
9 6	...	Do.	450	... ...	Do.
9 6	...	Do.	400	... ...	Sir Samuel Baker, F. R. S.
9 5	...	Do.	...	... ...	J. D. Inverarity.
9 3	...	Do.	...	Rewah ...	H. C. V. Hunter.
...	11 1	Do.	...	... ...	Rowland Ward's Collection.
9 1	...	Do.	...	India	J. D. Inverarity.
9 0	...	Do.	...	... ...	Do.
...	10 10½	...	...	... ...	Campbell Wynne.
♀8 4	...	(owner's measurement)	...	... ...	J. D. Inverarity.
♀8 1	...	Do.	...	... ...	Do.

Shot by His Highness the Maharajah of Kuch Behar.

TIGER SKULLS.

Length between two lines, from back to front.	Breadth between two lines.	Weight cleaned.		Habitat.	Owner.
		lb.	oz.		
14½	10	4	13	India	Rowland Ward's Collection.
13⅞	9⅜	3	15	Do.	Lieut.-Col. Boileau.
13⅝	10¼	4	10	Do.	Rowland Ward's Collection.
13½	9⅞	4	3	Do.	Capt. A. P. Longfield.

BEAR SKULLS (Ursus).

Length back to front between two lines.	Widest part between two lines.	Weight (cleaned).	Species.	Habitat.	Owner.
		lb. oz.			
18 in.	11 in.	10 0	Ursus Beringianus.	Siberia ...	Hon. Walter Rothschild.
16 ,,	9⅝ ,,	6 3	Polar ...	... ...	Rowland Ward's Collection.

BEAR SKINS (Ursus).

Length from nose to tip of tail.	Weight.	Species.	Habitat.	Owner.
ft. in.	lb.			
8 7	1600	Polar ...	... ...	Capt. Lyon, "Museum of Animated Nature."
8 0	1600	Do.	Arctic Seas	P. Lamont.
...	1400	Grizzly	... ...	Sir Thomas Hesketh, Bart.
7 0	...	Black ...	North America	T. W. H. Clarke.
6 10	423	...	India (owner's measurements)	Maharajah of Kuch Behar.
6 nearly	280	...	Do.	Col. G. P. Sanderson, "Wild Beasts of India."

ERRATA.

Page	257	*for*	"malches"	*read*	"machlis."
,,	257	,,	"gaauus"	,,	"gaurus."
,,	258	,,	"doriee"	,,	"dorice."
,,	260	,,	"canma"	,,	"canna."
,,	261	,,	"rupocapra"	,,	"rupicapra."
,,	261	,,	"kurdu"	,,	"kudu."

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